

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 24, 2004, 18:44:20 ; Search time 91 Seconds
(without alignments)
2319.827 Million cell updates/sec

Title: US-10-021-416A-1

Perfect score: 297

Sequence: 1 cccctctgactagcctt.....ggggaggagaacgtccggg 297

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

1 number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	273.2	92.0	744	3	US-09-163-285-3
C 2	273.2	92.0	1512	3	US-09-163-285-1
C 3	47.2	15.9	1534	4	US-09-023-655-274
C 4	47.2	15.9	1675	4	US-10-140-002-135
C 5	44.2	14.9	1201	4	US-09-023-655-140
C 6	39.8	13.4	7218	1	US-08-232-463-14
C 7	36.2	12.2	508	3	US-09-328-111-770
C 8	35	11.8	364	4	US-09-621-976-17202
C 9	33.8	11.4	13254	1	US-08-276-852-156
C 10	33.8	11.4	13254	1	US-08-276-852-170
C 11	33.8	11.4	13254	1	US-08-899-575-156
C 12	33.8	11.4	13254	1	US-08-899-575-170
C 13	33.8	11.4	13254	1	US-08-899-575-156
C 14	33.8	11.4	13254	1	US-08-899-575-170
C 15	33.8	11.4	13254	5	PCT-US95-08743-156
C 16	33.8	11.4	13254	5	PCT-US95-08743-170
C 17	33.2	11.2	714	4	US-09-663-600A-158
C 18	33.2	11.2	832	4	US-09-663-600A-64
C 19	33.2	11.2	1210	4	US-10-140-002-173
C 20	32.4	10.9	1446	4	US-09-489-039A-3152
C 21	31.8	10.7	594	4	US-09-252-991A-1754
C 22	31.8	10.7	1347	4	US-09-252-991A-1974
C 23	31.6	10.6	536165	4	US-09-214-808-1
C 24	31	10.4	2226	4	US-09-799-451-355
C 25	31	10.4	2727	4	US-09-814-915A-36
C 26	30.2	10.2	1107	4	US-09-248-796A-521
C 27	30.2	10.2	43280	2	US-08-804-227C-1

28 30 10.1 278 4 US-09-313-294A-4472 Sequence 4472, Ap
29 29.8 10.0 1059 3 US-08-724-984A-3 Sequence 3, Appl1
30 29.8 10.0 1059 4 US-08-771-276-19 Sequence 19, Appl1
31 29.8 10.0 1071 3 US-09-087-232A-14 Sequence 14, Appl1
32 29.8 10.0 1225 4 US-09-023-655-967 Sequence 967, Appl
33 29.8 10.0 1344 3 US-09-087-232A-16 Sequence 16, Appl
34 29.8 10.0 1376 3 US-09-087-232A-12 Sequence 12, Appl
35 29.8 10.0 1376 4 US-09-016-434-1104 Sequence 1104, Ap
36 29.8 10.0 1376 4 US-09-796-202-2 Sequence 2, Appl1
37 29.8 10.0 1414 3 US-08-466-343D-1 Sequence 1, Appl1
38 29.8 10.0 1414 4 US-09-502-783A-1 Sequence 1, Appl1
39 29.8 10.0 1414 4 US-09-502-783A-1 Sequence 1, Appl1
40 29.8 10.0 1414 4 US-09-339-912A-1 Sequence 1, Appl1
41 29.8 10.0 1442 4 US-08-833-752-3 Sequence 3, Appl1
42 29.8 10.0 1442 4 US-09-938-719-3 Sequence 3, Appl1
43 29.8 10.0 1477 4 US-08-833-752-2 Sequence 2, Appl1
44 29.8 10.0 1477 4 US-09-938-719-2 Sequence 2, Appl1
45 29.8 10.0 1539 4 US-09-023-655-265 Sequence 265, App

ALIGNMENTS

RESULT 1
US-09-163-285-3/c
; Sequence 3, Application US/09163285
; Patent No. 6204013
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran
; TITLE OF INVENTION: NOVEL MSP-5 PROTEIN AND NUCLEIC ACID MOLECULES
; NUMBER OF INVENTIONS: AND USES THEREOF
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/163,285
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/090,398
; FILING DATE: June 24, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: MNI-049
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 744 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..744
US-09-163-285-3

Query Match 92.0%; Score 273.2; DB 3; Length 744;
Best Local Similarity 99.3%; Pred. No. 2.9e-79;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCTTCTGCACTAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 60
Db 390 CCCTTCTGCACTAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 331
QY 61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTCCTC 120
Db 330 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTCCTC 271
QY 121 TAAGGCTCTTCCAGCCCTTGTCTCTGAAACGCTGTAAAGGCACGTGCTCTTCTCTTTGCC 180
Db 270 TAAGGCTCTTCCAGCCCTTGTCTCTGAAACGCTGTAAAGGCACGTGCTCTTCTCTTTGCC 211
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCRCTCTCGAGATCGACCGTGGAGCTCAGTTC 240
Db 210 TGTATCCAGCACTGCCCCAGCTCCAGCRCTCTCGAGATCGACCGTGGAGCTCAGTTC 151
QY 241 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
150 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 117

RESULT 2

US-09-163-285-1/c
; Sequence 1, Application US/09163285
; Patent No. 6204013
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran
; TITLE OF INVENTION: NOVEL MSP-5 PROTEIN AND NUCLEIC ACID MOLECULES
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/163,285
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/090,398
; FILING DATE: June 24, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: MNI-049
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)442-4214
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1512 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 125..868
; US-09-163-285-1

Query Match 92.0%; Score 273.2; DB 3; Length 1512;
Best Local Similarity 99.3%; Pred. No. 4e-79;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCTTCTGCACTAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 60
Db 514 CCCTTCTGCACTAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 455
QY 61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTCCTC 120
Db 454 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTCCTC 395
QY 121 TAAGGCTCTTCCAGCCCTTGTCTCTGAAACGCTGTAAAGGCACGTGCTCTTCTCTTTGCC 180
Db 394 TAAGGCTCTTCCAGCCCTTGTCTCTGAAACGCTGTAAAGGCACGTGCTCTTCTCTTTGCC 335
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCRCTCTCGAGATCGACCGTGGAGCTCAGTTC 240
Db 334 TGTATCCAGCACTGCCCCAGCTCCAGCRCTCTCGAGATCGACCGTGGAGCTCAGTTC 275
QY 241 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 274 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 241

RESULT 3

US-09-023-655-274/c
; Sequence 274, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 274:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1534 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BRSTNOT07
; CLONE: 1298861
; US-09-023-655-274

Query Match 15.9%; Score 47.2; DB 4; Length 1534;
Best Local Similarity 56.4%; Pred. No. 1.5e-05;
Matches 88; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

Qy	1	CCCCCTCTGCATGAGCCCTTTCAGGTTCGACATGCTCTGACCCCTTGCCATATCT	60
Db	1131	CCCTTTGTGTACAGGTTGTGTAATGTCTCAAGGTTCTTGACATGCCCTTGCCAAATCG	1072
Qy	61	CAGTGAGCCCTTGGGCTCAGGGTGAACACTATAGTCCAGGATCCGCTCACAATAATCTC	120
Db	1071	ATTGCTGCCGGTCCTCTCCTTGTGCAGGCTATAATCCAGGAGCCTCTTGCAAAATGGTCTC	1012
Qy	121	TAGGCCCTCTTCCAGCCCTTGTCTCTGAAACGCTGTA	156
Db	1011	AGTGACTTCGATTAACCCGAAGTCCGACTTGGTGTA	976

RESULT 4

```

US-10-140-002-135/c
; Sequence 135, Application US/10140002
; Patent No. 6725730
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330RIC59
; CURRENT APPLICATION NUMBER: US/10/140,002
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 135
; LENGTH: 1675
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-002-135

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PREST.T 5

RESOLUTION 5
 US-09-023-655-140/c
 ; Sequence 140, Application US/09023655
 ; Patent No. 6607879
 ;
 ; GENERAL INFORMATION:
 ; APPLICANT: Cocks, Benjamin G.
 ; APPLICANT: Susan G. Stuart
 ;
 ; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
 ; NUMBER OF SEQUENCES: 52
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Foley & Lardner
 ; STREET: 1800 Diagonal Road, Suite 500
 ; CITY: Alexandria
 ; APPLICANT: FARMER, F. O.

APPLICANT: Jeffrey J. Seilhamer
 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 EXPRESSION
 NUMBER OF SEQUENCES: 1508
 CORRESPONDENCE ADDRESS:
 ADDRESSER: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/023,655
 FILING DATE: HERewith
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 CLASSIFICATION:

DEPT. T. 6

```

RESULTS 6
US-08-232-463-14
: Sequence 14, Application US/08232463
: Patent No. 5670367
: GENERAL INFORMATION:
: APPLICANT: DORNER, F.
: APPLICANT: SCHEIFLINGER, F.
: APPLICANT: FALKNER, F. G.
: TITLE OF INVENTION: RECOMBINANT
: NUMBER OF SEQUENCES: 52
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Foley & Lardner
: STREET: 1800 Diagonal Road, Su
: CITY: Alexandria

```

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; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZspt-F18
; US-08-232-463-14

Query Match 13.4%; Score 39.8; DB 1; Length 7218;
Best Local Similarity 1.1%; Pred. No. 0.0078;
Matches 3; Conservative 168; Mismatches 106; Indels 0; Gaps 0;

QY 1 CCCCTTCGCACTAGGCGCTTTCAGTGTGCGATGCTGCTGACCGCTTGGCATATCT 60
Db 1160 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1219

QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATCTC 120
Db 1220 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1279

121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTGTAAGGCACGTGYCTCTCTCTTGGCC 180
Db 1280 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1339

QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGTGCAGCTCATGTC 240
Db 1340 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1399

QY 241 CGCCTGTAGCTGTGCTCAGCAGCTTACACATGTT 277
Db 1400 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1436

RESULT 7
US-09-328-111-770/c
; Sequence 770, Application US/09328111
; Patent No. 6262333
; GENERAL INFORMATION:
; APPLICANT: Endege, Wilson O.
; APPLICANT: Steinmann, Kathleen E.
; APPLICANT: Astle, Jon H.
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Bushnell, Steven E.
; APPLICANT: Carroll III, Eddie
; APPLICANT: Catino, Theodore J.
; APPLICANT: Derti, Adnan

; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZspt-F18
; US-08-232-463-14

Query Match 12.2%; Score 36.2; DB 3; Length 508;
Best Local Similarity 45.9%; Pred. No. 0.036;
Matches 119; Conservative 1; Mismatches 139; Indels 0; Gaps 0;

QY 1 CCCCTTCGCACTAGGCGCTTTCAGTGTGCGATGCTGCTGACCGCTTGGCATATCT 60
Db 351 CCTCATCAGCGCTGCACGTGGCACTGGAATCATTTGTCTGCTGGGCTCGGGCTTTGGG 292

QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATCTC 120
Db 291 CATTTATTGCTGAGCTACACAAATCTTCACTCTAGGCTTCCACTTCTCACTGGCTC 232

121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTGTAAGGCACGTGYCTCTCTCTTGGCC 180
Db 231 TATCCAGTCTCTTTCTTTGGTATTATACCTTCACTTTAGATGATGTTTCTGGCA 172

QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGTGCAGCTCATGTC 240
Db 171 CCCTCACTTCAACGTCACAGAGTCAGCTTTGTGTAGCGGTGGGGATCACAAACAGAAC 112

QY 241 CGCCTGTAGCTGTGCTC 259
Db 111 CCTCTTCAAGCACTGTGCTC 93

RESULT 8
US-09-621-976-17202/c
; Sequence 17202, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17202
; LENGTH: 364
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-621-976-17202

Query Match 11.8%; Score 35; DB 4; Length 364;
Best Local Similarity 11.6%; Pred. No. 0.077;
Matches 29; Conservative 116; Mismatches 106; Indels 0; Gaps 0;

QY 16 GCCTTTTCAAGTGTGCTGCTGACTCTGACCGCTTGGCATATCTCAGTGAGCCCTTGGC 75
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RESULT 11

US-08-899-575-156/c
; Sequence 156, Application US/08899575
; Patent No. 5770440
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Scripps Research Institute, Office of
; ADDRESSEE: Patent Counsel
; STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,
; STREET: Mail Drop TPC8
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 156:

SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 11.4%; Score 33.8; DB 1; Length 13254;
Best Local Similarity 56.9%; Pred. No. 0.92;
Matches 62; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 26 GTTGCCATGCTCTGACTCTGACCCCTTGGCATATCTCAGTGAGCCCTTGGCGCTCAGCGTGA 85
DB 9283 GTTTCGTGGACCCAGTCAGACCCAGGCGCATTTGTCAGGCCGCCCTTGGGATCTAGGCT 9224
QY 86 ACATAATAGTCCAGGATCCGCTCACATAAATTTCTTAAGGCCTCTTCCA 134
DB 9223 CGAATGTGGTACCGGTGCGCTTCTTAGTTTCTCGATGCGCTCCTCGA 9175

RESULT 12

US-08-899-575-170
; Sequence 170, Application US/08899575
; Patent No. 5770440
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:

APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel
STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 170:

SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-170

Query Match 11.4%; Score 33.8; DB 1; Length 13254;
Best Local Similarity 56.9%; Pred. No. 0.92;
Matches 62; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 26 GTTGCCATGCTCTGACTCTGACCCCTTGGCATATCTCAGTGAGCCCTTGGCGCTCAGCGTGA 85
DB 3972 GTTTCGTGGACCCAGTCAGACCCAGGCGCATTTGTCAGGCCGCCCTTGGGATCTAGGCT 4031
QY 86 ACATAATAGTCCAGGATCCGCTCACATAAATTTCTTAAGGCCTCTTCCA 134
DB 4032 CGAATGTGGTACCGGTGCGCTTCTTAGTTTCTCGATGCGCTCCTCGA 4080

RESULT 13

US-08-899-575-156/c
; Sequence 156, Application US/08899575
; Patent No. 580440
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:

ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel
STREET: 10666 No. 5804440th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA

ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994

APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992

ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCR1452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312

INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid

STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)

US-08-899-575-156

Query Match 11.4%; Score 33.8; DB 1; Length 13254;
Best Local Similarity 56.9%; Pred. No. 0.92;
Matches 62; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

Qy 26 GTTGCCATGCTGACTCTGACCTTGGCATATCTCAGTGAGCCCTTGCGCTCAGCGTGA 85
Db 9283 GTTTCGTGGAACCCAGTCAGACACCGGCATTTGCCAGGCCCTTGGGATCGTAGGCT 9224

86 ACACATATAGTCCAGATCCGCTCACATAAATTTCTTAAGGCTCTTCCA 134
Db 9223 CGAATGTGTACCGTCCCGCTTGTCTAGTTCTCGATGCCCTCTGA 9175

RESULT 14
US-08-899-575-170
Sequence 170, Application US/08899575
Patent No. 5804440

GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A

TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170

CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel

STREET: 10666 No. 5804440th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA

ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992

ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCR1452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312

INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)

US-08-899-575-170

Query Match 11.4%; Score 33.8; DB 1; Length 13254;
Best Local Similarity 56.9%; Pred. No. 0.92;
Matches 62; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

Qy 26 GTTGCCATGCTGACTCTGACCTTGGCATATCTCAGTGAGCCCTTGCGCTCAGCGTGA 85
Db 3972 GTTTCGTGGAACCCAGTCAGACACCGGCATTTGCCAGGCCCTTGGGATCGTAGGCT 4031

86 ACACATATAGTCCAGATCCGCTCACATAAATTTCTTAAGGCTCTTCCA 134
Db 4032 CGAATGTGTACCGTCCCGCTTGTCTAGTTCTCGATGCCCTCTCTGA 4080

RESULT 15
PCT-US95-08743-156/c
Sequence 156, Application PC/TUS9508743
GENERAL INFORMATION:

APPLICANT:
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/08743
FILING DATE: 11-JUL-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994

INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)

PCT-US95-08743-156

Query Match 11.4%; Score 33.8; DB 5; Length 13254;
Best Local Similarity 56.9%; Pred. No. 0.92;
Matches 62; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
Qy 26 GTTGCCATGGTCTGACTCTGACCTTGGCATATCTCAGTGAGCCCTTGGCGCTCAGCGTGA 85
Db 9283 GTTCGTGGAAACCCAGTCAGACCAACGGGCAATTGTCAGGCCCCCTTGGGATCGTAGGCT 9224
Qy 86 ACACTATAGTCCAGGATCCGCTCACATAAAATTCCTAAGGCCCTCTTCCA 134
Db 9223 CGAATGTGGTACCGGTGGCGCTTGTAGTTTCTCGATGGCCTCCTCGA 9175

Search completed: December 24, 2004, 20:31:26
Job time : 92 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 24, 2004, 18:41:25 ; Search time 2982 Seconds
(without alignments)
3629.309 Million cell updates/sec

Title: US-10-021-416A-1
Perfect score: 297
Sequence: 1 ccccttctgactagcctt.....ggggaggagaaacgtccggg 297

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues
number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_hic:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_gss1:*
9: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	296.2	99.7	297	1 AA077497	AA077497 7B18G12 C
2	296.2	99.7	899	5 BQ959262	BQ959262 AGENCOURT
3	273.2	92.0	521	7 CN341090	CN341090 170004182
4	273.2	92.0	665	7 CN341088	CN341088 170005322
5	273.2	92.0	916	5 B0845063	B0845063 AGENCOURT
6	273.2	92.0	925	4 B1488499	B1488499 603021008
7	273.2	92.0	1004	5 BUI91647	BUI91647 AGENCOURT
8	273.2	92.0	1057	4 BM473025	BM473025 AGENCOURT
9	273.2	92.0	1062	5 BM928528	BM928528 AGENCOURT
10	271.6	91.4	730	4 B1086395	B1086395 602849840
11	268	90.2	982	5 BX382729	BX382729 BX382729
12	262.2	88.3	835	2 BF677384	BF677384 602087128
13	257	86.5	786	4 BG023825	BG023825 602303453
14	249.6	84.0	903	5 BX391768	BX391768 BX391768
15	231.6	78.0	580	1 AV601357	AV601357 AV601357
16	227.8	76.7	279	1 AA077528	AA077528 7B44H09 C
17	219.4	73.9	672	7 CO403110	CO403110 AGENCOURT
18	219.4	73.9	726	7 CK367266	CK367266 AGENCOURT
19	219.4	73.9	729	7 CK601851	CK601851 AGENCOURT
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21	216.8	73.0	696	6 CA749911	CA749911 UI-M-PD0
22	216.8	73.0	739	9 CO424121	CO424121 UI-M-HU0
23	214.6	72.3	963	5 B0513255	B0513255 AGENCOURT
24	211.4	71.2	542	6 CA533756	CA533756 C0406B02

ALIGNMENTS

RESULT 1
LOCUS AA077497 297 bp mRNA linear EST 24-SEP-1999
DEFINITION 7B18G12 Chromosome 7 Fetal Brain cDNA Library Homo sapiens CDNA
clone 7B18G12, mRNA sequence.
ACCESSION AA077497
VERSION AA077497.1 GI:1836971
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 297)
AUTHORS Touchman, J.W., Bouffard, G.G., Weintraub, L.A., Idol, J.R., Wang, L., Robbins, C.M., Nussbaum, J.C., Lovett, M. and Green, E.D.
TITLE 2006 expressed-sequence tags derived from human chromosome 7-enriched cDNA libraries
JOURNAL Genome Res. 7 (3), 281-292 (1997)
MEDLINE 97228905
PUBMED 9074931
COMMENT Contact: Eric D. Green
Genome Technology Branch
National Human Genome Research Institute/NIH
49 Convent Dr., MSC4431, Building 49, Room 2A08, Bethesda, MD 20892
Tel: 3014020201
Fax: 3014024735
Email: egreen@hgrl.nih.gov
Plate: 18 row: G column: 12
Seq primer: -21M13 (ABI).
Location/Qualifiers
1. .297
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="7B18G12"
/sex="female and male mixture"
/tissue_type="brain"
/dev_stage="pool of 9 week and 12 week"
/lab_host="E. coli strain DH5 alpha"
/clone_lib="Chromosome 7 Fetal Brain cDNA Library"
/notes="Organ: brain; Vector: PAMF10; cDNA was generated from cytoplasmic RNA using a mixture of random DNA hexamers and oligo(dT). From this pool of cDNA, human chromosome 7-enriched cDNA was isolated by direct cDNA selection using chromosome 7 genomic DNA (cosmids). The resulting direct-selected cDNA was cloned into a plasmid vector using a non-directional uracil DNA glycosylase

C 25	211.4	71.2	590	6	CA568593
C 26	211.4	71.2	612	2	BB656031
C 27	211.4	71.2	647	6	CD773253
C 28	211.4	71.2	671	2	BB624329
C 29	211.4	71.2	674	6	CA321634
C 30	211.4	71.2	680	7	CN457146
C 31	211.4	71.2	756	6	CB595386
C 32	211.4	71.2	770	4	B1665154
C 33	211.4	71.2	777	7	CO799318
C 34	211.4	71.2	908	5	B0514817
C 35	211.4	71.2	910	5	BQ895354
C 36	211.4	71.2	927	6	CB193950
C 37	211.4	71.2	1020	6	BY110743
C 38	211.4	71.2	1507	3	AK012968
C 39	211.4	71.2	1526	3	AK011474
C 40	211.4	71.2	1527	3	AK033219
C 41	211.4	71.2	1783	3	AK051562
C 42	209.8	70.6	349	5	BY122080
C 43	209.8	70.6	655	5	BM949676
C 44	209.8	70.6	766	7	CF950399
C 45	209.8	70.6	832	7	CO813269

(UDG) -mediated cloning strategy."

ORIGIN

Query Match 99.7%; Score 296.2; DB 1; Length 297;
 Best Local Similarity 99.3%; Pred. No. 6.2e-74;
 Matches 295; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTCGACACGAGCCCTTTAGTGTGCGATGGCTGACTGTGACCCCTTGGCATATCT 60
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 Db 1 CCCCTTCGACACGAGCCCTTTAGTGTGCGATGGCTGACTGTGACCCCTTGGCATATCT 60
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 QY 121 TAAGGCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGTGCTCTTCTCTTGGCC 180
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 181 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTC 240
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 QY 241 CGCCTGTAGTCTGTGCTCAGCAGCTTACACACTGTGGGGAGGAGAAAGCTCCGGG 297
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 Db 241 CGCCTGTAGTCTGTGCTCAGCAGCTTACACACTGTGGGGAGGAGAAAGCTCCGGG 297
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RESULT 2

BQ959262/c
 LOCUS BQ959262 899 bp mRNA linear EST 21-AUG-2002
 DEFINITION AGENCOURT_8948878 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:6469659
 5', mRNA sequence.
 ACCESSION BQ959262
 VERSION BQ959262.1 GI:22374740
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 899)
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLMI3999 row: C column: 04
 High quality sequence stop: 594.

Location/Qualifiers

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 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_71"
 /notes="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 2.1 kb."

FEATURES

source

Query Match 99.7%; Score 296.2; DB 5; Length 899;
 Best Local Similarity 99.3%; Pred. No. 7.5e-74;
 Matches 295; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

ORIGIN

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 Db 1 CCCCTTCGACACGAGCCCTTTAGTGTGCGATGGCTGACTGTGACCCCTTGGCATATCT 60
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 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTC 120
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QY 1 CCCCTTCGACACGAGCCCTTTAGTGTGCGATGGCTGACTGTGACCCCTTGGCATATCT 60
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 QY 121 TAAGGCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGTGCTCTTCTCTTGGCC 180
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 Db 362 TAAGGCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGTGCTCTTCTCTTGGCC 303
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 QY 181 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTC 240
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 Db 302 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTC 243
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 QY 241 CGCCTGTAGTCTGTGCTCAGCAGCTTACACACTGTGGGGAGGAGAAAGCTCCGGG 297
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 Db 242 CGCCTGTAGTCTGTGCTCAGCAGCTTACACACTGTGGGGAGGAGAAAGCTCCGGG 186
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RESULT 3

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 LOCUS CN341090 521 bp mRNA linear EST 16-MAY-2004
 DEFINITION 17000418229950 GRN_ES Homo sapiens cDNA 5', mRNA sequence.

ACCESSION CN341090

VERSION CN341090.1 GI:47341024

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

AUTHORS

1 (bases 1 to 521)

Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J.,

Li, Y., Xu, C., Fang, R., Guegler, K., Rao, M.S., Mandalam, R.,

Lebkowski, J. and Stanton, L.W.

Transcriptome characterization elucidates signaling networks that

control human ES cell growth and differentiation

Nat. Biotechnol. 22 (6), 707-716 (2004)

Contact: Brandenberger R

Regenerative Medicine

Geron Corporation

230 Constitution Drive, Menlo Park, CA 94025, USA

Tel: 650 473 8658

Fax: 650 473 7760

Email: rbrandenberger@geron.com

Insert Length: 521 Std Error: 0.00.

Location/Qualifiers

1. 521

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/tissue_type="embryonic stem cells, cell lines H1, H7, and

H9"

/clone_lib="GRN ES"

/note="oligo dt primed, full-length enriched cDNA library

from undifferentiated hES cell lines H1 (p32), H7 (p29),

and H9 (p26) maintained in feeder-free conditions"

Query Match 92.0%; Score 273.2; DB 7; Length 521;

Best Local Similarity 99.3%; Pred. No. 2.6e-67;

Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

ORIGIN

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 QY 121 TAAGGCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGTGCTCTTCTCTTGGCC 180
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Db 336 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTCTTGGC 277
181 TGTATCCAGCAGCTGCCCCAGCTCCAGCRCTCTCCAGATCGACCGGTGGACTTCAGTTTC 240
276 TGTATCCAGCAGCTGCCCCAGCTCCAGCAGCTCTCCAGATCGACCGGTGGACTTCAGTTTC 217
241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
216 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 183

RESULT 4
CN341088/c
LOCUS 665 bp mRNA linear EST 16-MAY-2004
DEFINITION 17000532259077 GRN_ES Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN341088
VERSION CN341088.1 GI:47341022
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 665)
AUTHORS Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murgue, J., Fisk, G.J.,
Li, Y., Xu, C., Fang, R., Guegler, K., Rao, M.S., Mandalam, R.,
Lebkowski, J. and Stanton, L.W.
TITLE Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
JOURNAL Nat. Biotechnol. 22 (6), 707-716 (2004)
COMMENT Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8558
Fax: 650 473 7760
Email: rbrandenberger@geron.com
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FEATURES
Location/Qualifiers
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/db_xref="taxon:9606"
/tissue_type="embryonic stem cells, cell lines H1, H7, and
H9"
/clone_lib="GRN ES"
/note="oligo dT primed, full-length enriched cDNA library
from undifferentiated hES cell lines H1 (p32), H7 (p29),
and H9 (p26) maintained in feeder-free conditions"

Query Match 92.0%; Score 273.2; DB 2; Length 665;
Best Local Similarity 99.3%; Pred. No. 2.7e-67;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGCTTCTGCACTAGGCGCTTTCAGTGTGTCATGGTCTGACTCTGACCTTGGCATATCT 60
402 CCGCTTCTGCACTAGGCGCTTTCAGTGTGTCATGGTCTGACTCTGACCTTGGCATATCT 343
61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTC 120
342 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTC 283
121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTTGGC 180
282 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTTGGC 223
181 TGTATCCAGCAGCTGCCCCAGCTCCAGCRCTCTCCAGATCGACCGGTGGACTTCAGTTTC 240
222 TGTATCCAGCAGCTGCCCCAGCTCCAGCAGCTCTCCAGATCGACCGGTGGACTTCAGTTTC 163
241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274

Db 336 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTTGGC 277
181 TGTATCCAGCAGCTGCCCCAGCTCCAGCRCTCTCCAGATCGACCGGTGGACTTCAGTTTC 240
276 TGTATCCAGCAGCTGCCCCAGCTCCAGCAGCTCTCCAGATCGACCGGTGGACTTCAGTTTC 217
241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
216 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 183

RESULT 5
BU845063/c
LOCUS 916 bp mRNA linear EST 16-OCT-2002
DEFINITION IMAGE:6578597 5', mRNA sequence.
ACCESSION BU845063
VERSION BU845063.1 GI:24029504
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 916)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM2780 row: j column: 05
High quality sequence stop: 730.
FEATURES
Location/Qualifiers
1..916
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6578597"
/tissue_type="teratocarcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 109"
/note="Organ: ovary; Vector: pOTB7; Site 1: EcoRI; Site 2:
XhoI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 92.0%; Score 273.2; DB 5; Length 916;
Best Local Similarity 99.3%; Pred. No. 2.9e-67;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGCTTCTGCACTAGGCGCTTTCAGTGTGTCATGGTCTGACTCTGACCTTGGCATATCT 60
486 CCGCTTCTGCACTAGGCGCTTTCAGTGTGTCATGGTCTGACTCTGACCTTGGCATATCT 427
61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTC 120
426 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTC 367
121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTTGGC 180
366 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTTAAGGCAGCTGTCTCTCTCTTGGC 307
181 TGTATCCAGCAGCTGCCCCAGCTCCAGCRCTCTCCAGATCGACCGGTGGACTTCAGTTTC 240
306 TGTATCCAGCAGCTGCCCCAGCTCCAGCAGCTCTCCAGATCGACCGGTGGACTTCAGTTTC 247
241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
246 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 213
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RESULT 6
BI488499/c
LOCUS
DEFINITION
603021008F1 NIH_MGC_114 Homo sapiens cDNA clone IMAGE:5191897 5',
mRNA sequence.
BI488499
VERSION
KEYWORDS
SOURCE
EST.
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 925)
AUTHORS
TITLE
JOURNAL
COMMENT
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM11479 row: 0 column: 02
High quality sequence stop: 741.
FEATURES
source
1. 925
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5191897"
/lab_host="DH10B"
/clone_lib="NIH_MGC_114"
/notes="Organ: Brain; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: EcoRV (destroyed); RNA source anonymous pool of 6
male brains, age range 23-27 yo. Library is oligo-dT
primed and directionally cloned (EcoRV site is destroyed
upon cloning). Average insert size 1.5 kb, insert size
range 1-3 kb. Library is normalized and enriched for
full-length clones and was constructed by C. Gruber
(Invitrogen). Research Genetics tracking code 019. Note:
this is a NIH_MGC Library."
ORIGIN
Query Match 92.0%; Score 273.2; DB 4; Length 925;
Best Local Similarity 99.3%; Pred. No. 2.9e-67;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGACATAGGCTTTAGTGTGGCATGGTCTGACTCTGACCTTGGCATATCT 60
DB 497 CCCCTTCTGACATAGGCTTTAGTGTGGCATGGTCTGACTCTGACCTTGGCATATCT 438
QY 61 CAGTGAGCCCTTCGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACATAAATTC 120
DB 437 CAGTGAGCCCTTCGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACATAAATTC 378
QY 121 TAAGGCTCTTTCAGGCTTTGTCTCTGAACCGCTGTAAAGCAGCTGCTCTTCTCTTGGC 180
DB 377 TAAGGCTCTTTCAGGCTTTGTCTCTGAACCGCTGTAAAGCAGCTGCTCTTCTCTTGGC 318
QY 181 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGACTCAGTTC 240
DB 317 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGACTCAGTTC 258
QY 241 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 274
DB 257 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 224

RESULT 7

BU191647/c
LOCUS
DEFINITION
AGENCOURT_8074092 NIH_MGC_102 Homo sapiens cDNA clone IMAGE:6087327
5', mRNA sequence.
BU191647
VERSION
KEYWORDS
SOURCE
EST.
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1004)
AUTHORS
TITLE
JOURNAL
COMMENT
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1CM2323 row: 1 column: 16
High quality sequence stop: 671.
FEATURES
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1. 1004
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6087327"
/tissue_type="epidermoid carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_102"
/notes="Organ: salivary gland; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed
by Ling Hong in the laboratory of Gerald M. Rubin
(University of California, Berkeley) using ZAP-CDNA
synthesis kit (Stratagene) and Superscript II RT (Life
Technologies). Note: this is a NIH_MGC Library."
ORIGIN
Query Match 92.0%; Score 273.2; DB 5; Length 1004;
Best Local Similarity 99.3%; Pred. No. 2.9e-67;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGACATAGGCTTTTCCAGTGTGGCATGGTCTGACTCTGACCTTGGCATATCT 60
DB 428 CCCCTTCTGACATAGGCTTTTCCAGTGTGGCATGGTCTGACTCTGACCTTGGCATATCT 369
QY 61 CAGTGAGCCCTTTCGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACATAAATTC 120
DB 368 CAGTGAGCCCTTTCGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACATAAATTC 309
QY 121 TAAGGCTCTTTCAGGCTTTGTCTCTGAACCGCTGTAAAGCAGCTGCTCTTCTCTTGGC 180
DB 308 TAAGGCTCTTTCAGGCTTTGTCTCTGAACCGCTGTAAAGCAGCTGCTCTTCTCTTGGC 249
QY 181 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGACTCAGTTC 240
DB 248 TGTATCCAGACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGACTCAGTTC 189
QY 241 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 274
DB 188 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 155
RESULT 8
BM473025/c
LOCUS
BM473025 1057 bp mRNA linear EST 05-FEB-2002

DEFINITION AGENCOURT_6466173 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:5574640
5', mRNA sequence.
ACCESSION BM473025
VERSION BM473025.1 GI:18522067
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1057)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM12323 row: j column: 17
High quality sequence stop: 582.
Location/Qualifiers
FEATURES
source
1..1057
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5574640"
/tissue_type="duodenal adenocarcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 88"
/notes="Organ: small intestine; Vector: pCMV-SPORT6;
Site 1: NotI; Site 2: SalI; Cloned unidirectionally;
oligo-dT primed. Average insert size 1.767 kb. Library
enriched for full-length clones and constructed by Life
Technologies. Note: this is a NIH_MGC Library."
ORIGIN
Query Match 92.0%; Score 273.2; DB 4; Length 1057;
Best Local Similarity 99.3%; Pred. No. 3e-67; Indels 0; Gaps 0;
Matches 272; Conservative 2; Mismatches 0;
QY 1 CCCTTCTGACATAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCTTGGCATATCT 60
DB 463 CCCTTCTGACATAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCTTGGCATATCT 404
61 CAGTAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAATCTC 120
403 CAGTAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAATCTC 344
121 TAAGGCTCTTCCAGCTTGTCTCTGAACGCTGTAAAGCAGCTGTCTTCTCTTCTTGGC 180
343 TAAGGCTCTTCCAGCTTGTCTCTGAACGCTGTAAAGCAGCTGTCTTCTCTTCTTGGC 284
181 TGTATCCAGCACTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCC 240
283 TGTATCCAGCACTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCC 224
QY 241 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 223 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 190
RESULT 9
BM928528/c
LOCUS
DEFINITION AGENCOURT_6715446 NIH_MGC_100 Homo sapiens cDNA clone IMAGE:5798274
5', mRNA sequence.
ACCESSION BM928528
VERSION BM928528.1 GI:19378907
KEYWORDS EST.

DEFINITION AGENCOURT_6466173 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:5574640
5', mRNA sequence.
ACCESSION BM473025
VERSION BM473025.1 GI:18522067
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1062)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: CGAP (Stanford)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2025 row: p column: 19
High quality sequence stop: 675.
Location/Qualifiers
FEATURES
source
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5798274"
/tissue_type="hepatocellular carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 100"
/notes="Organ: liver; Vector: pORF7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library."
ORIGIN
Query Match 92.0%; Score 273.2; DB 5; Length 1062;
Best Local Similarity 99.3%; Pred. No. 3e-67; Indels 0; Gaps 0;
Matches 272; Conservative 2; Mismatches 0;
QY 1 CCCTTCTGACATAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCTTGGCATATCT 60
DB 444 CCCTTCTGACATAGGCTTTTCAGTGTGCGATGGTCTGACTCTGACCTTGGCATATCT 385
61 CAGTAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAATCTC 120
DB 384 CAGTAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAATCTC 325
121 TAAGGCTCTTCCAGCTTGTCTCTGAACGCTGTAAAGCAGCTGTCTTCTCTTCTTGGC 180
324 TAAGGCTCTTCCAGCTTGTCTCTGAACGCTGTAAAGCAGCTGTCTTCTCTTCTTGGC 285
181 TGTATCCAGCACTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCC 240
264 TGTATCCAGCACTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCCAGCTTCC 205
QY 241 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 204 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 171
RESULT 10
BI086395/c
LOCUS
DEFINITION AGENCOURT_602849840F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:4991480 5',
mRNA sequence.
ACCESSION BI086395
VERSION BI086395.1 GI:14504725
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 730)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Incyte Genomics, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM11008 row: p column: 09
High quality sequence stop: 724.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:4991480"
/cell_line="MGC36"
/lab_host="DH10B"
/clone_lib="NIH_MGC_10"
/notes="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5 kb. Library prepared by Life
Technologies."

FEATURES
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI085YJ23"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match 91.4%; Score 271.6; DB 4; Length 730;
Best Local Similarity 98.9%; Pred. No. 8e-67; Indels 0; Gaps 0;
Matches 271; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGTCAGTCTGACCTGACCCCTTGGCATATCT 60
DB 423 CCCGTTCTGCACCTAGGCGCTTTCAGTGTGCGATGTCAGTCTGACCTGACCCCTTGGCATATCT 364
QY 61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAAATTC 120
DB 363 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAAATTC 304
QY 121 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAGGACAGTGCTCTTCTCTTGGC 180
DB 303 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAGGACAGTGCTCTTCTCTTGGC 244
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGGTGCGACTCAGTTC 240
DB 243 TGTATCCAGCACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGGTGCGACTCAGTTC 184
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 183 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 150
RESULT 11
BX382729/c
LOCUS
DEFINITION BX382729 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
clone CSODI085YJ23 5-PRIME, mRNA sequence.
ACCESSION BX382729
VERSION BX382729.2 GI:46569928
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 982)
Li, W.B., Gruber, C., Jesse, J., and Polayes, D.
Full-length cDNA libraries and normalization

Unpublished (2001)
On May 8, 2003 this sequence version replaced gi:30443899.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
4346.f
For more information about this cluster, see
<http://www.genoscope.cns.fr/cdna?s=CSODI085CE12QPl&c=4346.f>.
Location/Qualifiers
1. 982
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI085YJ23"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

FEATURES
source
1. 982
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI085YJ23"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match 90.2%; Score 268; DB 5; Length 982;
Best Local Similarity 97.8%; Pred. No. 9.1e-66; Indels 0; Gaps 0;
Matches 268; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGTCAGTCTGACCTGACCCCTTGGCATATCT 60
DB 466 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGTCAGTCTGACCTGACCCCTTGGCATATCT 407
QY 61 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAAATTC 120
DB 406 CAGTGAGCCCTTGGGCTCAGCGTGAACACTATATAGTCAGGATCCGCTCACAATAAATTC 347
QY 121 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAGGACAGTGCTCTTCTCTTGGC 180
DB 346 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAGGACAGTGCTCTTCTCTTGGC 287
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGGTGCGACTCAGTTC 240
DB 286 TGTATCCAGCACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGGTGCGACTCAGTTC 227
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 226 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 193
RESULT 12
BF677384/c
LOCUS
DEFINITION BF677384 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4251295 5',
mRNA sequence.
ACCESSION BF677384
VERSION BF677384.1 GI:11951279
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 835)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc.
cDNA Library Preparation: CLONETECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LNCMI074 row: 9 column: 08
 High quality sequence stop: 596.
 Location/Qualifiers
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 1. .835
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4251295"
 /lab_host="DH10B (TI phage-resistant)"
 /clone_lib="NIH_MGC 83"
 /notes="Organ: prostate; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggccttatggcc); Site 2: SfiI (ggccttatggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CAGGCGCATATGACC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.4 kb (range 0.5-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."

FEATURES

source

ORIGIN

Query Match 88.3%; Score 262.2; DB 2; Length 835;
 Best Local Similarity 98.9%; Pred. No. 4e-64;
 Matches 272; Conservative 2; Mismatches 0; Indels 1; Gaps 1;
 QY 1 CCCCTCTGCACTAGGCGCTTTCAGTGTGCGATGCTGACTCTGACCTTGGCATATCT 60
 DB 280 CCCCTCTGCACTAGGCGCTTTCAGTGTGCGATGCTGACTCTGACCTTGGCATATCT 221
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTC 120
 DB 220 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTC 161
 QY 121 TAAGGCTCTTTCAGGCTTGTCTGAAACGCTGTAAGCAGTGTCTTCTCTTCTTGC 179
 DB 160 TAAGGCTCTTTCAGGCTTGTCTGAAACGCTGTAAGCAGTGTCTTCTCTTCTTGC 101
 QY 180 CTGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGACCGGTCGACTCAGTT 239
 DB 100 CTGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGACCGGTCGACTCAGTT 41
 240 CCGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
 40 CCGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 6

RESULT 13

BG023825/c

LOCUS

DEFINITION BG023825 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:4394965 5', mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1 (bases 1 to 786)
 NIH-MGC <http://mgs.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgaps-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LNCMI0091 row: 1 column: 14
 High quality sequence stop: 657.
 Location/Qualifiers
 source
 1. .786
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4394965"
 /tissue_type="duodenal adenocarcinoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC 88"
 /notes="Organ: small intestine; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally; oligo-dr primed. Average insert size 1.767 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library."

FEATURES

source

ORIGIN

Query Match 86.5%; Score 257; DB 4; Length 786;
 Best Local Similarity 93.3%; Pred. No. 1.2e-62;
 Matches 277; Conservative 2; Mismatches 17; Indels 1; Gaps 1;
 QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACTCTGACCTTGGCATATCT 60
 DB 645 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACTCTGACCTTGGCATATCT 586
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTC 120
 DB 585 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTC 527
 QY 121 TAAGGCTCTTTCAGGCTTGTCTGAAACGCTGTAAGCAGTGTCTTCTCTTCTTGC 180
 DB 526 TAAGGCTCTTTCAGGCTTGTCTGAAACGCTGTAAGCAGTGTCTTCTCTTCTTGC 467
 QY 181 TGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGACCGTGGACTCAGTT 240
 DB 466 TGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGACCGTGGACTCAGTT 407
 QY 241 CCGCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTTGGGGAGGAGAACCTCGGG 297
 DB 406 CCGCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTTGGGGAGGAGAACCTCGGG 350

RESULT 14

BX391768

LOCUS

DEFINITION BX391768 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA clone CS0D1072YK16 3-PRIME, mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 903)
 Full-length cDNA libraries and normalization
 Unpublished (2001)
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

4346.f

For more information about this cluster, see

http://www.genoscope.cns.fr/cdna?s=CS0BAI0272F06_CS02542_1&c=4346.f

FEATURES

source

Location/Qualifiers

1. .903
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clones="CS0D1072K16"
 /issue_type="PLACENTA COT 25-NORMALIZED"
 /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
 /notes="1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN

Query Match 84.0%; Score 249.6; DB 5; Length 903;
 Best Local Similarity 97.4%; Pred. No. 1.7e-60; Indels 1; Gaps 1;
 Matches 260; Conservative 2; Mismatches 40; Indels 1; Gaps 1;

QY 1 CCCCTTCGCACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 60
 DB 544 CCCCTTCGCACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 603
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACTATAGTCAGGATCGGCTCACATAAATTTCTC 120
 DB 604 CAGTGAGCCCTTGGCTCAGCGTGAACTATAGTCAGGATCGGCTCACATAAATTTCTC 663
 QY 121 TAAGGCTCTTTCAGCGCTTCTCTGAAACGCTGTAGGACACGTCTCTTCTCTTGGCC 180
 DB 664 TAAGGCTCTTTCAGCGCTTCTCTGAAACGCTGTAGGACACGTCTCTTCTCTTGGCC 723
 QY 181 TGTATCCAGCACTGCGCCAGCTCCAGCCTC-TCGAGATCGACCGGTGCGACTCAGTT 239
 DB 724 TGTATCCAGCACTGCGCCAGCTCCAGCCTTNTTNGAGATCGACCGGTGCGACTCAGTT 783
 QY 240 CGCGCTGTAGCTGTGCTCAGCAGCT 266
 DB 784 TCGNCTGTAGCTGTGCTCAGCAGCT 810

RESULT 15

AV601357/c
 LOCUS AV601357 Bos taurus kidney fetus Bos taurus cDNA clone E1KI003H01
 DEFINITION 5', mRNA sequence.

AV601357

AV601357.1 GI:9723676

EST.

Bos taurus (cow)

ORGANISM

Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 Bovinae; Bos.

REFERENCE 1 (bases 1 to 580)
 Takasuga,A., Hirotsune,S., Itoh,R., Jitohzono,A., Suzuki,H., Aso,H.
 and Sugimoto,Y.

TITLE Establishment of a high throughput EST sequencing system using
 poly(A) tail-removed cDNA libraries and determination of 36,000

bovine ESTs

Nucleic Acids Res. 29 (22), E108 (2001)

JOURNAL

MEDLINE

PUBMED

COMMENT

Contact: Yoshikazu Sugimoto
 Animal Genetics Division
 Shirakawa Institute of Animal Genetics
 Odakura, Nishigo, Nishi-shirakawa, Fukushima 961-8061, Japan
 Tel: 81-248-25-5641
 Fax: 81-248-25-5725
 Email: kazusugi@cocoa.ocn.ne.jp
 Single pass sequencing.

This clone was obtained from a polyA-deleted cDNA library.

FEATURES
source

Location/Qualifiers
 1. .580
 /organism="Bos taurus"
 /mol_type="mRNA"
 /db_xref="taxon:9913"
 /clone="E1KI003H01"
 /tissue_type="kidney"
 /dev_stage="fetus"
 /lab_host="DH10B"
 /clone_lib="Bos taurus kidney fetus"
 /notes="Vector: pZLI; Site 1: SalI; Site 2: NotI; Poly A
 was deleted from a NotI site"

ORIGIN

Query Match 78.0%; Score 231.6; DB 1; Length 580;
 Best Local Similarity 89.8%; Pred. No. 2.2e-55;
 Matches 246; Conservative 2; Mismatches 26; Indels 0; Gaps 0;

QY 1 CCCCTTCTGCACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 60
 DB 525 CCCCTTTCGACCCAGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGCGGCTATCT 466
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACTATAGTCCAGGATCCGCTCACATAAATTTCTC 120
 DB 465 CAATGAGCCCTTGGCTCAGCGTGAACTATAGTCCAGGATCCGCTCACATAAATTTCTC 406
 QY 121 TAAGGCTCTTTCAGCGCTTGTCTCTGAAACGCTGTAGGACACGTCTCTTCTCTTGGCC 180
 DB 405 CAAAGGCTCTTTCAGCGCTTGTCTCTGAAACGCTGTAGGACACGTCTCTTCTCTTGGCC 346
 QY 181 TGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTT 240
 DB 345 TGTATCCAGCACTGCGCCAGCTCCAGCCTCTCGAGATCGGCTAGTACGACTCAGCTC 286
 QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
 DB 285 TTCCTGTAGCTCCAGGCTCAGGAGTTTACATACT 252

Search completed: December 24, 2004, 20:29:46

Job time : 2986 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 24, 2004, 17:37:50 ; Search time 2481 Seconds
(without alignments)
5661.040 Million cell updates/sec

Title: US-10-021-416A-1
Perfect score: 297
Sequence: 1 cccctctgactagcctt.....999999gagaaacgcgcggg 297

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues
T number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb_ba.*
- 2: gb_htg.*
- 3: gb_in.*
- 4: gb_om.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pl.*
- 9: gb_pr.*
- 10: gb_ro.*
- 11: gb_sts.*
- 12: gb_sy.*
- 13: gb_un.*
- 14: gb_vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	296.2	99.7	297	6	AX548049
C 2	273.2	92.0	744	6	AR142811 Sequence
C 3	273.2	92.0	746	6	AX136616 Sequence
C 4	273.2	92.0	746	6	BD123856 Secretary
C 5	273.2	92.0	747	6	BD006701 Novel pol
C 6	273.2	92.0	1306	6	BD136414 95 human
C 7	273.2	92.0	1413	9	BC019903 Homo sapi
C 8	273.2	92.0	1419	6	AX136423 Sequence
C 9	273.2	92.0	1419	6	BD123666 Secretary
C 10	273.2	92.0	1419	9	AK075537 Homo sapi
C 11	273.2	92.0	1457	6	BD137191 Mammalian
C 12	273.2	92.0	1462	6	BD227243 Secreted
C 13	273.2	92.0	1470	6	AX376412 Sequence
C 14	273.2	92.0	1470	6	AX454716 Sequence
C 15	273.2	92.0	1470	6	AX491194 Sequence
C 16	273.2	92.0	1470	9	AY359100 Homo sapi
C 17	273.2	92.0	1512	6	AR142810 Sequence
C 18	273.2	92.0	1547	9	BC032339 Homo sapi
C 19	271.2	91.3	510	6	AX079702 Sequence

C 20	236.2	79.5	634	6	AX590166
C 21	233.2	78.5	443	6	BD137185 Mammalian
C 22	211.4	71.2	1526	6	AX590165 Sequence
C 23	168.2	56.6	1623	6	BD137186 Mammalian
C 24	151.2	50.9	132764	9	AC073842 Homo sapi
C 25	146.4	49.3	178455	2	AC146015 Pan trogl
C 26	140.2	47.2	167854	2	AC092483 Homo sapi
C 27	128.2	43.2	371	6	BD137184 Mammalian
C 28	109.6	36.9	242451	2	AC132657 Rattus no
C 29	109.6	36.9	268982	2	AC129692 Rattus no
C 30	103.2	34.7	607	11	G78159 S210P6250FE
C 31	103.2	34.7	128185	2	AC087144 Mus muscu
C 32	103.2	34.7	209958	2	AC087135 Mus muscu
C 33	67.4	22.7	750	6	CQ594210 Sequence
C 34	67.4	22.7	1286	3	AY060987 Drosophil
C 35	67.4	22.7	2750	6	CQ594209 Sequence
C 36	67.4	22.7	3274	6	CQ594206 Sequence
C 37	67.4	22.7	76187	2	AC015219 Drosophil
C 38	67.4	22.7	175963	3	AC009379 Drosophil
C 39	67.4	22.7	279088	3	AB003518 Drosophil
C 40	52.2	17.6	2763	5	BC073680 Xenopus l
C 41	50.4	17.0	1882	10	BC013549 Mus muscu
C 42	50.4	17.0	1909	10	AF361644 Mus muscu
C 43	48.8	16.4	580	6	AX198865 Sequence
C 44	48.8	16.4	580	6	AX209392 Sequence
C 45	48.4	16.3	917	5	CR524291 Gallus ga

ALIGNMENTS

RESULT 1
LOCUS AX548049 297 bp DNA linear PAT 26-NOV-2002
DEFINITION Sequence 1 from Patent WO0236793.
ACCESSION AX548049
VERSION AX548049.1 GI:25813145
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Phillips, R., Reeder, T.C. and Allen, K.D.
TITLE Secreted protein associated with depression; composition and methods of use thereof
JOURNAL Patent: WO 0236793-A 1 10-MAY-2002;
DETAGEN, Inc. (US)
FEATURES
source
1..297
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 99.7%; Score 296.2; DB 6; Length 297;
Best Local Similarity 100.0%; Pred. No. 2.1e-74;
Matches 297; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCTAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 60
DB 1 CCCCTTCTGCTAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 60
QY 61 CAGTGTAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 120
DB 61 CAGTGTAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 120
QY 121 TAAGGCGCTTTCAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 180
DB 121 TAAGGCGCTTTCAGGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 180
QY 181 TGTATCCAGCACTTGGCGCGCTTTCAGTGTGGCATGGTCTGACTGTGACCTTGGCATATCT 240

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Db 181 TGTATCCAGCACCTGCCAGCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTGTGGGAGGAGAAACGTTCCGGG 297
Db 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTGTGGGAGGAGAAACGTTCCGGG 297

RESULT 2
AR142811/c
LOCUS AR142811 744 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 3 from patent US 6204013.
ACCESSION AR142811
VERSION AR142811.1 GI:15104097
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 744)
AUTHORS Khodadoust M.M.
TITLE MSP-5 nucleic acid molecules and uses therefor
JOURNAL Patent: US 6204013-A 3 20-MAR-2001;
FEATURES
LOCATION/Qualifiers
SOURCE 1. .744
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN
Query Match 92.0%; Score 273.2; DB 6; Length 744;
Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 60
Db 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 388
Qy 61 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 120
Db 387 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 328
Qy 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 180
Db 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 268
Qy 181 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 267 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 208
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 174

RESULT 4
BD123856/c
LOCUS BD123856 746 bp DNA linear PAT 18-SEP-2002
DEFINITION Secretory protein or membrane protein.
ACCESSION BD123856
VERSION BD123856.1 GI:23218801
KEYWORDS JP 2002017376-A/365.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 746)
AUTHORS Ota,T., Isogai,T., Nishikawa,T., Kawai,Y., Sugiyama,T. and Hayashi,K.
TITLE Secretory protein or membrane protein
JOURNAL Patent: JP 2002017376-A 365 22-JAN-2002;
COMMENT HELIX RESEARCH INSTITUTE
OS Homo sapiens (human)
PN JP 2002017376-A/365
PD 22-JAN-2002
PF 07-JUL-2000 JP 2000253173
PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, YURI KAWAI, TOMOYASU SUGIYAMA,
PI KOJI HAYASHI
PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/ PC
10, C12P21/02, C12Q1/68//C12P21/08, C12N15/00, C12N5/00 CC
Secretory protein or membrane protein
FH Key Location/Qualifiers
FT source 1. .746
FT /organism='Homo sapiens (human)'
FEATURES
source 1. .746
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 92.0%; Score 273.2; DB 6; Length 746;
Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 60
Db 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 388
Qy 61 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 120
Db 387 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 328
Qy 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 180
Db 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 268
Qy 181 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 267 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 208
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 174

RESULT 3
AX136616/c
LOCUS AX136616 746 bp DNA linear PAT 30-MAY-2001
DEFINITION Sequence 538 from Patent EP1067182.
ACCESSION AX136616
VERSION AX136616.1 GI:14273020
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Ota,T., Isogai,T., Nishikawa,T., Kawai,Y., Sugiyama,T. and Hayashi,K.
TITLE Secretory protein or membrane protein
JOURNAL Patent: EP 1067182-A 538 10-JAN-2001;
COMMENT Helix Research Institute (JP)
OS Homo sapiens (human)
PN EP 1067182-A 538 10-JAN-2001
PD 10-JAN-2001
PF 07-JUL-2000 JP 2000253173
PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, YURI KAWAI, TOMOYASU SUGIYAMA,
PI KOJI HAYASHI
PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/ PC
10, C12P21/02, C12Q1/68//C12P21/08, C12N15/00, C12N5/00 CC
Secretory protein or membrane protein
FH Key Location/Qualifiers
FT source 1. .746
FT /organism='Homo sapiens (human)'
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/mol_type="unassigned DNA"
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ORIGIN
Query Match 92.0%; Score 273.2; DB 6; Length 746;
Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 60
Db 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 388
Qy 61 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 120
Db 387 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 328
Qy 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 180
Db 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 268
Qy 181 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 267 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 208
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 174

RESULT 4
BD123856/c
LOCUS BD123856 746 bp DNA linear PAT 18-SEP-2002
DEFINITION Secretory protein or membrane protein.
ACCESSION BD123856
VERSION BD123856.1 GI:23218801
KEYWORDS JP 2002017376-A/365.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 746)
AUTHORS Ota,T., Isogai,T., Nishikawa,T., Kawai,Y., Sugiyama,T. and Hayashi,K.
TITLE Secretory protein or membrane protein
JOURNAL Patent: JP 2002017376-A 365 22-JAN-2002;
COMMENT HELIX RESEARCH INSTITUTE
OS Homo sapiens (human)
PN JP 2002017376-A/365
PD 22-JAN-2002
PF 07-JUL-2000 JP 2000253173
PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, YURI KAWAI, TOMOYASU SUGIYAMA,
PI KOJI HAYASHI
PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/ PC
10, C12P21/02, C12Q1/68//C12P21/08, C12N15/00, C12N5/00 CC
Secretory protein or membrane protein
FH Key Location/Qualifiers
FT source 1. .746
FT /organism='Homo sapiens (human)'
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source 1. .746
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/mol_type="genomic DNA"
/db_xref="taxon:9606"

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Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 60
Db 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCCATGGTCTGACTCTGACCTTGCCATATCT 388
Qy 61 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 120
Db 387 CAGTGAGCCCTTTCAGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAAATTCCTC 328
Qy 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 180
Db 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGTCGTAAGGACAGTGYCTTCTCTCTTGGCC 268
Qy 181 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 267 TGTATCCAGCACCTGCCAGCTCCAGCCTCCAGCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 208
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 174
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Db 447 CCCCTTTCGACACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 388
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Db 327 TAAGGCTCTTCCAGGCTTGTCTCTGAAGCGTGTAAAGCACGTCCTCTCTCTCTTGGC 268
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCGAGATCGACCGTGCAGCTCAGTTC 240
Db 267 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCGAGATCGACCGTGCAGCTCAGTTC 208
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 174

RESULT 5
LOCUS BD006701.1 GI:18635072 747 bp DNA linear PAT 31-JAN-2002
DEFINITION Novel polypeptide.
ACCESSION BD006701
VERSION BD006701.1
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Ito, Y., Mogi, S., Tanaka, H., Okubo, S. and Ogi, K.
TITLE Novel polypeptide
JOURNAL Patent: JP 2001029090-A 4 06-FEB-2001;
TAKEDA CHEMICAL INDUSTRIES LTD
COMMENT OS Homo sapiens (human)
PN JP 2001029090-A/4
PD 06-FEB-2001
PF 19-MAY-2000 JP 2000147530
PR YASUAKI ITO, SHINICHI MOGI, HIDYUKI TANAKA, SHOICHI OKUBO, PI KAZUHIRO OGI
PC C12N15/09, A61K38/00, A61K39/395, A61K39/395, A61K45/00, A61K48/00, A61P1/00, A61P5/00, A61P9/00, A61P11/00, A61P25/00, A61P31/00, PC A61P35/00
PC A61P37/00, C07K14/47, C07K16/18, C12P21/02, G01N33/15, G01N33/50, PC G01N33/566//
PC C12N1/15, C12N1/19, C12N1/21, C12N5/10, C12P21/08, (C12P21/02, PC C12R1:91),
PC (C12N5/10, C12R1:91), (C12P21/08, C12R1:91), C12N15/00, A61K37/02, PC C12N5/00, C12R1:91)
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Key Location/Qualifiers
FT source 1. 747
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Location/Qualifiers
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FT /mol_type="genomic DNA"
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ORIGIN
Query Match 92.0%; Score 273.2; DB 6; Length 747;
Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTTCGACACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 60
Db 390 CCCCTTTCGACACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 331
QY 61 CAGTAGAGCCCTTCGCTCGAGCGTGAACACTATATAGTCCAGGATCCGCTCACAATAAATTC 120

Db 330 CAGTAGAGCCCTTCGCTCGAGCGTGAACACTATATAGTCCAGGATCCGCTCACAATAAATTC 271
QY 121 TAAGGCTCTTCCAGGCTTGTCTCTGAAGCGTGTAAAGCACGTCCTCTCTCTCTTGGC 180
Db 270 TAAGGCTCTTCCAGGCTTGTCTCTGAAGCGTGTAAAGCACGTCCTCTCTCTCTTGGC 211
QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCGAGATCGACCGTGCAGCTCAGTTC 240
Db 210 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCGAGATCGACCGTGCAGCTCAGTTC 151
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 150 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 117

RESULT 6
LOCUS BD136414/c 1306 bp DNA linear PAT 18-SEP-2002
DEFINITION 95 human secretory proteins.
ACCESSION BD136414
VERSION BD136414.1 GI:23231359
KEYWORDS JP 2002506627-A/101.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Ruben, S.M., Ni, J., Rosen, C.A., Yu, G.L., Young, P.E., Fen, P., Soppet, D.R., Wei, Y.F., Endress, G.A., Duan, R.D., Kyaw, H., Ebner, R., Lafleur, D.W., Olsen, H.S., Shi, X. and Moore, P.A.
TITLE 95 human secretory proteins
JOURNAL Patent: JP 2002506627-A 101 05-MAR-2002;
HUMAN GENOME SCIENCES INC
COMMENT OS Homo sapiens (human)
PN JP 2002506627-A/101
PD 05-MAR-2002
PF 18-MAR-1998 JP 2000536733
PR 19-MAR-1998 US 60/078566, 19-MAR-1998 US 60/078576 PR 19-MAR-1998 US 60/078573, 19-MAR-1998 US 60/078574 PR 19-MAR-1998 US 60/078579, 19-MAR-1998 US 60/078578 PR 19-MAR-1998 US 60/078581, 19-MAR-1998 US 60/078577 PR 19-MAR-1998 US 60/078563, 01-APR-1998 US 60/080314 PR 01-APR-1998 US 60/080312, 01-APR-1998 US 60/080313 PI
LIANG YU, PAUL E. YOUNG, GUO
PI PING FENG
PI DANIEL R. Soppet, YING FEI WEI, GREGORY A. ENDRESS, ROXANNE D. DUAN, PI HLA KYAW, PI REINHARD EBNER, DAVID W. LAFLEUR, HENRIK S. OLSEN, YANGGU SHI, PAUL PI A. MOORE
PC C12N15/09, A61K38/00, A61K48/00, A61P43/00, C07K14/47, C07K16/18, PC C12N1/15,
PC C12N1/19, C12N1/21, C12N5/10, C12P21/02, C12Q1/68, G01N33/53, G01N33/566,
PC C12N15/00, A61K37/02, C12N5/00
CC n equals a, t, g, or c
FH Key Location/Qualifiers
FT source 1. 1306
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Location/Qualifiers
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ORIGIN
Query Match 92.0%; Score 273.2; DB 6; Length 1306;
Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTTCGACACTAGGCGCTTTTCAGTGTGCGCATGGTCTGACTCTGACCCCTTGGCATATCT 60


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387 CAGTGAAGCCCTTGCCTCAGCGTGAACACTATATAGTCAGGATCCGCTCAATAAATTC 328
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121 TAAGGCTCTTCCAGCCTTGTCTCTGAAGCGTGTAAAGCAGCTGCTCTTCTCTTGGC 180
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241 CGCCTTGTAGCTCTGTCTCAGCAGCTTACACACT 274
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207 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 174
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RESULT 9
BD123666/c
LOCUS
DEFINITION
SECRETORY protein or membrane protein.
AUTHORS
BD123666
KEYWORDS
GI:23218611
SOURCE
JP 2002017376-A/175.
ORGANISM
Homo sapiens (human)
REFERENCE
1 (bases 1 to 1419)
Ota,T., Nishikawa,T., Suzuki,Y., Kawai-Hio,Y., Hayashi,K.,
Hayashi,K.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS
Ota,T., Isogai,T., Nishikawa,T., Kawai,Y., Sugiyama,T. and
Hayashi,K.
TITLE
Secretory protein or membrane protein
JOURNAL
PATENT: JP 2002017376-A 175 22-JAN-2002;
HELIIX RESEARCH INSTITUTE
COMMENT
OS Homo sapiens (human)
PN JP 2002017376-A/175
PD 22-JAN-2002
PF 07-JUL-2000 JP 2000253173
PT TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, YURI KAWAI, TOMOYASU
PI SUGIYAMA,
PI KOJI HAYASHI
PC
C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/
10,
PC C12P21/02, C12Q1/68//C12P21/08, C12N15/00, C12N5/00 CC
SECRETORY protein or membrane protein
FH Key Location/Qualifiers
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Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACCTTGACCTTGACCTTGGCATATCT 60
DB 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACCTTGACCTTGGCATATCT 388
QY 61 CAGTGAGCCCTTCCAGCCTTTCAGTGTGCGATGCTGACCTTGACCTTGACCTTGGCATATCT 120
DB 387 CAGTGAGCCCTTCCAGCCTTTCAGTGTGCGATGCTGACCTTGACCTTGACCTTGGCATATCT 328
QY 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAGCGTGTAAAGCAGCTGCTCTTCTCTTGGC 180
DB 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAGCGTGTAAAGCAGCTGCTCTTCTCTTGGC 268
QY 181 TGTATCCAGCACTGCCAGCTCCAGCCTTCAGATCGACCGTCCGACTCAGTTTC 240
DB 267 TGTATCCAGCACTGCCAGCTCCAGCCTTCAGATCGACCGTCCGACTCAGTTTC 208
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QY 241 CCCCTTGTAGCTCTGTCTCAGCAGCTTACACACT 274
DB 207 CGCCTGTAGCTCTGTCTCAGCAGCTTACACACT 174
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RESULT 10
AK075537/c
LOCUS
DEFINITION
Homo sapiens cDNA PSEC0237 fis, clone HEMBA1007186, weakly similar
to Homo sapiens CTG4a mRNA.
ACCESSION
AK075537
VERSION
AK075537.1 GI:22761745
KEYWORDS
oligo capping; fis (full insert sequence).
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1
AUTHORS
Ota,T., Nishikawa,T., Suzuki,Y., Kawai-Hio,Y., Hayashi,K.,
Ishii,S., Saito,K., Yamamoto,J., Wakamatsu,A., Nagai,T.,
Nakamura,Y., Nagahara,K., Sugano,S. and Isogai,T.
HRI human cDNA sequencing project
Unpublished
2 (bases 1 to 1419)
Isogai,T. and Yamamoto,J.
Direct Submission
Submitted (20-MAR-2002) Takao Isogai, Helix Research Institute,
Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
(E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)
HRI human cDNA sequencing project; cDNA 5'- & 3'-end one pass
sequencing, clone selection and full insert sequencing; Helix
Research Institute (supported by Japan Key Technology Center etc.);
cDNA library construction; Institute of Medical Science, University
of Tokyo, Laboratory of Genome Structure, Human Genome Center.
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Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACCTTGACCTTGGCATATCT 60
DB 447 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACCTTGACCTTGGCATATCT 388
QY 61 CAGTGAGCCCTTCCAGCCTTTCAGTGTGCGATGCTGACCTTGACCTTGACCTTGGCATATCT 120
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QY 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAGCGTGTAAAGCAGCTGCTCTTCTCTTGGC 180
DB 327 TAAGGCTCTTCCAGCCTTGTCTCTGAAGCGTGTAAAGCAGCTGCTCTTCTCTTGGC 268
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QY	181	TGATCCAGACCTGCTCCAGCTCCAGCCTCTCCAGATCGACCGGTGGACTCAGTTTC	240
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QY	241	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	274
Db	207	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	174
RESULT 11			
LOCUS	BD137191/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	BD137191		
VERSION	BD137191.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1457)		
JOURNAL	Sheppard, P.O., Moore, E.E. and Raymond, F.C.		
COMMENT	Mammalian calcitonin-like polypeptide-1		
	Patent: JP 2002508170-A 8 19-MAR-2002;		
	ZYMOGENETICS INC		
	OS Homo sapiens (human)		
	PN JP 2002508170-A/8		
	PD 19-MAR-2002		
	PF 18-DEC-1998 JP 2000539054		
	PR 18-DEC-1997 US 08/993935		
	PI PAUL O SHEPPARD, EMMA E MOORE, FENELLA C RAYMOND PC		
	C12N15/09, C07K14/585, C07K16/26, C07K16/42//C12P21/02, C12P21/08, PC		
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QY	61	CAGTAGCGCTTGGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTCTC	120
Db	392	CAGTAGCGCTTGGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTCTC	333
QY	121	TAAGGCTTTCCAGCTTGTCTCTGAAACGCTGTAAGGACGCTCTTCTCTTCTTGGCC	180
Db	332	TAAGGCTTTCCAGCTTGTCTCTGAAACGCTGTAAGGACGCTCTTCTCTTCTTGGCC	273
QY	181	TGATCCAGCAGCTGCGCCAGCTCCAGCCTCTCGAGATCCAGCCTGCGCTCAGTTTC	240
Db	272	TGATCCAGCAGCTGCGCCAGCTCCAGCCTCTCGAGATCCAGCCTGCGCTCAGTTTC	213
QY	241	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	274
Db	212	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	179
RESULT 12			
LOCUS	BD227243/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	BD227243		
VERSION	BD227243.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1462)		
JOURNAL	Merberg, D., Treacy, M., Agostino, M.J., II, R.J.S., Spaulding, V.,		
COMMENT	Secreted proteins and polynucleotides encoding them		
	Patent: JP 2002522062-A 4 23-JUL-2002;		
	GENETICS INSTITUTES INC		
	OS Homo sapiens (human)		
	PN JP 2002522062-A/4		
	PD 23-JUL-2002		
	PF 13-AUG-1999 JP 2000565001		
	PR 14-AUG-1998 US 60/096622, 17-AUG-1998 US 60/096815 PR		
	04-SEP-1998 US 60/099229, 23-OCT-1998 US 60/105368 PR		
	08-JAN-1999 US 60/115234, 12-FEB-1999 US 60/119931 PR		
	18-FEB-1999 US 60/120575, 30-APR-1999 US 60/132020 PR		
	11-AUG-1999 US 60/148424		
	PI KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIE, LISA A COLLINS		
	PI RACIE,		
	PI CHERYL EVANS, DAVID MERBERG, MAURICE TREACY, MICHAEL J AGOSTINO,		
	PI ROBERT J STEININGER II, VIKKI SPAULDING, GORDON G WONG, HILARY F		
	PI CLARK,		
	PI KIM FECHTEL		
	PC C12N15/09, A61K38/00, A61K39/395, A61K39/395, A61K45/00, A61K48/00,		
	PC A61P7/00,		
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	A61P37/02		
	PC A61P43/00, A61P43/00, C07K14/47, C12N5/10, C12P21/02, G01N33/15, PC		
	G01N33/50,		
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	Matches	272; Conservative	2; Mismatches 0; Indels 0; Gaps 0;
QY	1	CCCTTTCTGCACCTAGGCGCTTTCAGTGTGCGATGGTCTGACTCTGACCTTGGCATATCT	60
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QY	61	CAGTAGCGCTTGGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTCTC	120
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QY	121	TAAGGCTTTCCAGCTTGTCTCTGAAACGCTGTAAGGACGCTCTTCTCTTCTTGGCC	180
Db	355	TAAGGCTTTCCAGCTTGTCTCTGAAACGCTGTAAGGACGCTCTTCTCTTCTTGGCC	296
QY	181	TGATCCAGCAGCTGCGCCAGCTCCAGCCTCTCGAGATCCAGCCTGCGCTCAGTTTC	240
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QY	241	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	274
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RESULT 13			
LOCUS	AX376412/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	AX376412/c		
VERSION	AX376412.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1462)		
JOURNAL	Merberg, D., Treacy, M., Agostino, M.J., II, R.J.S., Spaulding, V.,		
COMMENT	Secreted proteins and polynucleotides encoding them		
	Patent: JP 2002522062-A 4 23-JUL-2002;		
	GENETICS INSTITUTES INC		
	OS Homo sapiens (human)		
	PN JP 2002522062-A/4		
	PD 23-JUL-2002		
	PF 13-AUG-1999 JP 2000565001		
	PR 14-AUG-1998 US 60/096622, 17-AUG-1998 US 60/096815 PR		
	04-SEP-1998 US 60/099229, 23-OCT-1998 US 60/105368 PR		
	08-JAN-1999 US 60/115234, 12-FEB-1999 US 60/119931 PR		
	18-FEB-1999 US 60/120575, 30-APR-1999 US 60/132020 PR		
	11-AUG-1999 US 60/148424		
	PI KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIE, LISA A COLLINS		
	PI RACIE,		
	PI CHERYL EVANS, DAVID MERBERG, MAURICE TREACY, MICHAEL J AGOSTINO,		
	PI ROBERT J STEININGER II, VIKKI SPAULDING, GORDON G WONG, HILARY F		
	PI CLARK,		
	PI KIM FECHTEL		
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	PC A61P43/00, A61P43/00, C07K14/47, C12N5/10, C12P21/02, G01N33/15, PC		
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QY	181	TGATCCAGCAGCTGCGCCAGCTCCAGCCTCTCGAGATCCAGCCTGCGCTCAGTTTC	240
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LOCUS	BD227243/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	BD227243		
VERSION	BD227243.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1462)		
JOURNAL	Merberg, D., Treacy, M., Agostino, M.J., II, R.J.S., Spaulding, V.,		
COMMENT	Secreted proteins and polynucleotides encoding them.		
	Patent: JP 2002522062-A 4 23-JUL-2002;		
	GENETICS INSTITUTES INC		
	OS Homo sapiens (human)		
	PN JP 2002522062-A/4		
	PD 23-JUL-2002		
	PF 13-AUG-1999 JP 2000565001		
	PR 14-AUG-1998 US 60/096622, 17-AUG-1998 US 60/096815 PR		
	04-SEP-1998 US 60/099229, 23-OCT-1998 US 60/105368 PR		
	08-JAN-1999 US 60/115234, 12-FEB-1999 US 60/119931 PR		
	18-FEB-1999 US 60/120575, 30-APR-1999 US 60/132020 PR		
	11-AUG-1999 US 60/148424		
	PI KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIE, LISA A COLLINS		
	PI RACIE,		
	PI CHERYL EVANS, DAVID MERBERG, MAURICE TREACY, MICHAEL J AGOSTINO,		
	PI ROBERT J STEININGER II, VIKKI SPAULDING, GORDON G WONG, HILARY F		
	PI CLARK,		
	PI KIM FECHTEL		
	PC C12N15/09, A61K38/00, A61K39/395, A61K39/395, A61K45/00, A61K48/00,		
	PC A61P7/00,		
	PC A61P7/02, A61P7/04, A61P7/06, A61P13/00, A61P29/00, A61P35/00, PC		
	A61P37/02		
	PC A61P43/00, A61P43/00, C07K14/47, C12N5/10, C12P21/02, G01N33/15, PC		
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RESULT 12			
LOCUS	BD227243/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	BD227243		
VERSION	BD227243.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1462)		
JOURNAL	Merberg, D., Treacy, M., Agostino, M.J., II, R.J.S., Spaulding, V.,		
COMMENT	Secreted proteins and polynucleotides encoding them.		
	Patent: JP 2002522062-A 4 23-JUL-2002;		
	GENETICS INSTITUTES INC		
	OS Homo sapiens (human)		
	PN JP 2002508170-A/8		
	PD 19-MAR-2002		
	PF 18-DEC-1998 JP 2000539054		
	PR 18-DEC-1997 US 08/993935		
	PI PAUL O SHEPPARD, EMMA E MOORE, FENELLA C RAYMOND PC		
	C12N15/09, C07K14/585, C07K16/26, C07K16/42//C12P21/02, C12P21/08, PC		
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Db	272	TGATCCAGCAGCTGCGCCAGCTCCAGCCTCTCGAGATCCAGCCTGCGCTCAGTTTC	213
QY	241	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	274
Db	212	CGCCTGTAGCTGTGCTCAGCAGCTTACACACT	179
RESULT 12			
LOCUS	BD227243/c		
DEFINITION	Mammalian calcitonin-like polypeptide-1.		
ACCESSION	BD227243		
VERSION	BD227243.1	GI:23232136	
KEYWORDS	JP 2002508170-A/8.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 1462)		
JOURNAL	Merberg, D., Treacy, M., Agostino, M.J., II, R.J.S., Spaulding, V.,		
COMMENT	Secreted proteins and polynucleotides encoding them		

LOCUS AX376412 1470 bp DNA linear PAT 01-MAR-2002
DEFINITION Sequence 479 from Patent WO0168848.
ACCESSION AX376412
VERSION AX376412.1 GI:19170596
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Baker, K.P., Chen, J., Desnoyers, L., Goddard, A., Godowski, P.J., Gurney, A.L., Pan, J., Smith, V., Watanabe, C.K., Wood, W.I. and Zhang, Z.

TITLE Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL Patent: WO 0168848-A 479 20-SEP-2001;
Genentech, Inc. (US)

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Best Local Similarity 99.3%; Pred. No. 8.8e-68;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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QY 181 TGTATCCAGCCTGCCCCAGCTCCAGCTCCAGCTCTCGAGATCGACCGTGGACTCAGTTTC 240
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DEFINITION Sequence 301 from Patent WO0200690.
ACCESSION AX491194
VERSION AX491194.1 GI:22323934
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J., Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I. and Ye, W.

TITLE Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

JOURNAL Patent: WO 0200690-A 301 03-JAN-2002;
Genentech, Inc. (US)

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QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGCTGACCTGACCCCTTGGCATATCT 60
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LOCUS AX376412 1470 bp DNA linear PAT 01-MAR-2002
DEFINITION Sequence 479 from Patent WO0168848.
ACCESSION AX376412
VERSION AX376412.1 GI:19170596
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Baker, K.P., Chen, J., Desnoyers, L., Goddard, A., Godowski, P.J., Gurney, A.L., Pan, J., Smith, V., Watanabe, C.K., Wood, W.I. and Zhang, Z.

TITLE Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL Patent: WO 0168848-A 479 20-SEP-2001;
Genentech, Inc. (US)

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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Title: US-10-021-416A-1

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	273.2	92.0	1306	10	Sequence 140, App
4	273.2	92.0	1306	16	Sequence 102, App
5	273.2	92.0	1306	16	Sequence 102, App
6	273.2	92.0	1457	9	Sequence 102, App
7	273.2	92.0	1462	16	Sequence 7, Appli
8	273.2	92.0	1462	16	Sequence 7, Appli
9	273.2	92.0	1470	13	Sequence 58, Appl
10	273.2	92.0	1470	13	Sequence 58, Appl
11	273.2	92.0	1470	13	Sequence 479, App
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c 19	273.2	92.0	1470	14	US-10-176-914-479	Sequence 479, App
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ALIGNMENTS

RESULT 1

US-10-021-416A-1
; Sequence 1, Application US/10021416A
; Publication No. US20030066098A1
; GENERAL INFORMATION:
; APPLICANT: Phillips, Russell
; APPLICANT: Reeder, Thadd C.
; APPLICANT: Allen, Keith
; TITLE OF INVENTION: Secreted Protein Associated With
; FILE REFERENCE: R-236
; CURRENT APPLICATION NUMBER: US 60/245,852
; PRIOR FILING DATE: 2001-11-05
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 297
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-021-416A-1

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; Sequence 140, Application US/09799777
; Patent No. US20020091244A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; Hillman, Jennifer L.
; Corley, Neil C.
; Guegler, Karl J.
; Baugh, Mariah
; Sather, Susan
; Shah, Purvi
; TITLE OF INVENTION: HUMAN SIGNAL PEPTIDE-CONTAINING PROTEINS
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: word perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/799,777
; FILING DATE: 06-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/002,485
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: BILLINGS, LUCY J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0459 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 140:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 717 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2821925
; SEQUENCE DESCRIPTION: SEQ ID NO: 140 :
US-09-799-777-140

Query Match 92.0%; Score 273.2; DB 9; Length 717;
Best Local Similarity 99.3%; Pred. No. 1e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGGTCTGACTGTGACCTTGCCATATCT 60
512 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGGTCTGACTGTGACCTTGCCATATCT 453

61 CAGTGAGCCCTTTCGCGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTC 120
452 CAGTGAGCCCTTTCGCGCTCAGCGTGAACACTATAGTCCAGGATCCGCTCACATAAATTC 393
121 TAAGGCCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGCTGYCTCTCTCTTGCC 180
392 TAAGGCCTCTTCAGCCTTGTCTCTGAAACGCTGTGAAGCACGCTGYCTCTCTCTTGCC 333
181 TGTATCCAGACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTC 240
332 TGTATCCAGACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTC 273
241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
272 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 239

RESULT 3
US-09-397-945-102/c
; Sequence 102, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc. et al.
; TITLE OF INVENTION: 95 Human secreted proteins
; FILE REFERENCE: P2027P1
; CURRENT APPLICATION NUMBER: US/09/397,945
; CURRENT FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,581
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,577
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,563
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,313
; PRIOR FILING DATE: 1998-04-01
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 102
; LENGTH: 1306
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1300)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-397-945-102

Query Match 92.0%; Score 273.2; DB 10; Length 1306;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGGTCTGACTGTGACCTTGCCATATCT 60
488 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGCGATGGTCTGACTGTGACCTTGCCATATCT 429

QY 61 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 120
DB 428 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 369
QY 121 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 180
DB 368 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 309
QY 181 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 240
DB 308 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 249
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 248 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 215

RESULT 4

US-09-846-573B-10/c
; Sequence 102, Application US/10653595
; Patent No. US20020077467A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 95 Human secreted proteins
; FILE REFERENCE: P202/P1C1
; CURRENT APPLICATION NUMBER: US/10/653,595
; CURRENT FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: US 09/397945
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 102
; LENGTH: 1306
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1300)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-846-573B-10

Query Match 92.0%; Score 273.2; DB 16; Length 1306;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTCTGCACCTAGGCTTTCAGTGTGCGATGCTGCTGACCTTGGCATATCT 60
DB 488 CCCCTTCTGCACCTAGGCTTTCAGTGTGCGATGCTGCTGACCTTGGCATATCT 429
QY 61 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 120
DB 428 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 369
QY 121 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 180

DB 368 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 309
QY 181 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 240
DB 308 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 249
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 248 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 215

RESULT 5

US-09-846-573B-10/c
; Sequence 10, Application US/09846573B
; Patent No. US20020077467A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Moore, Emma E.
; APPLICANT: Raymond, Fenella
; TITLE OF INVENTION: Mammalian Calcitonin-like Polypeptide-1
; FILE REFERENCE: 97-73C1
; CURRENT APPLICATION NUMBER: US/09/846,573B
; CURRENT FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: 09/213,634
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/069,976
; PRIOR FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 1457
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)....(806)
US-09-846-573B-10

Query Match 92.0%; Score 273.2; DB 9; Length 1457;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTCTGCACCTAGGCTTTCAGTGTGCGATGCTGCTGACCTTGGCATATCT 60
DB 452 CCCCTTCTGCACCTAGGCTTTCAGTGTGCGATGCTGCTGACCTTGGCATATCT 393
QY 61 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 120
DB 392 CAGTGGCCCTTCGGCTCAGCGTGAACACTATATAGTCCAGGATCCGCTCACATAAATTC 333
QY 121 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 180
DB 332 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAAGCACGTGCTCTTCCTCTTGC 273
QY 181 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 240
DB 272 TGTATCCAGCACCTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGCGACTCAGTTTC 213
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 212 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 179

RESULT 6

US-09-374-046A-7/c
; Sequence 7, Application US/09374046A
; Publication No. US2003009651A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.

; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/114140
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/115552
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/116843
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/125774
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125778
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125826
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/127035
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 60/127706
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/129122
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/130359
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131272
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/132371
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132379
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132383
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/135750
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 60/138166
; PRIOR FILING DATE: 1999-06-08
; PRIOR APPLICATION NUMBER: 60/144791
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/146970
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/162506
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380142
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/644848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 09/747259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/816744
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 09/854208
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/854280
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/874503
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 09/869599
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/908,827
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US99/10733
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: PCT/US99/28551
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30720
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: PCT/US00/05601
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02

; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: PCT/US00/23522
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 80
; SEQ ID NO 58
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-036-342-58

Query Match 92.0%; Score 273.2; DB 13; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY	1	CCCTTCTGCAC	TAGGCTTTGAGTGTGCCATGAGTGTGCTGACCTGACCTTGCCATATCT	60
Db	497	CCCTTCTGCAC	TAGGCTTTGAGTGTGCCATGAGTGTGCTGACCTGACCTTGCCATATCT	438
QY	61	CAGTGAGCCCTT	GGCTGAGCTGACACTATAGTCCAGATCCGCTCACATAAATCTC	120
Db	437	CAGTGAGCCCTT	GGCTGAGCTGAGCTGAACTATAGTCCAGATCCGCTCACATAAATCTC	378
QY	121	TAAGGCTCTT	CCAGCCTTGTCTCTGAAACGGCTGTAAGGACAGTGYCTCTTCTCTTGCC	180
Db	377	TAAGGCTCTT	CCAGCCTTGTCTCTGAAACGGCTGTAAGGACAGTGYCTCTTCTCTTGCC	318
QY	181	TGTATCCAGAC	CTGCCAGCTCCAGCCTCTCGAGTCCGACCGGTGGACTCAGTTC	240
Db	317	TGTATCCAGAC	CTGCCAGCTCCAGCCTCTCGAGTCCGACCGGTGGACTCAGTTC	258
QY	241	CGCCTGTAGCT	CTGTGCTCAGCAGCTTACACACT	274
Db	257	CGCCTGTAGCT	CTGTGCTCAGCAGCTTACACACT	224

RESULT 10

US-10-052-586-479/c
; Sequence 479, Application US/10052586
; Publication No. US20020127584A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	8												

; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
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; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089908

Query Match 92.08; Score 273.2; DB 13; Length 1470;

Best Local Similarity 99.34; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCGACATAGGCTTTTCAGTGTGGCATGCTGACTGACCTTGACCCCTTGGCATATCT 60
Db 497 CCCCTTCGACATAGGCTTTTCAGTGTGGCATGCTGACTGACCCCTTGGCATATCT 438
61 CAGTGAGCCCTTGGCTCAGCGTGGAACACTATAGTCCAGGATCGGCTCACATAAATTC 120
437 CAGTGAGCCCTTGGCTCAGCGTGGAACACTATAGTCCAGGATCGGCTCACATAAATTC 378
121 TAAGGCTCTTCAGCCCTTGTCTCTGAAACGCTGTAAGGACAGTGCTCTTCTCTTGCC 180
Db 377 TAAGGCTCTTCCAGCCCTTGTCTCTGAAACGCTGTAAGGACAGTGCTCTTCTCTTGCC 318
Qy 181 TGTATCAGACACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGTGCGACTTCAGTTC 240
Db 317 TGTATCAGACACTGCCCCAGCTCCAGCCCTCTCGAGATCGACCGTGCGACTTCAGTTC 258
Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 257 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 224

RESULT 11

US-10-036-041-58/c
; Sequence 58, Application US/10036041
; Publication No. US2002019751A1
; GENERAL INFORMATION:
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.

; APPLICANT: Pan, James
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3030R1C8
; CURRENT APPLICATION NUMBER: US/10/036, 041
; CURRENT FILING DATE: 2001-12-26
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/112514
; PRIOR FILING DATE: 1998-12-15
; PRIOR APPLICATION NUMBER: 60/113300
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113430
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113605
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113621
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/114140
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/115552
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/116843
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/125774
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125778
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125826
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/127035
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 60/127706
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/129122
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/130359
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131272
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/132371
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132379
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132383
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/135750
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 60/138166
; PRIOR FILING DATE: 1999-06-08
; PRIOR APPLICATION NUMBER: 60/144791
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/146970
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/162506
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380142
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/644848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 09/747259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/816744

; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 09/854208
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/854280
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/874503
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 09/869599
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/908,827
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US99/10733
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: PCT/US99/28551
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30720
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: PCT/US00/05601
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: PCT/US00/23522
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 80
; SEQ ID NO 58
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien

Query Match 92.0%; Score 273.2; DB 13; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCGACCTAGGCTTTCAGTGTGGCCATGCTGACTGTGACCCCTTGGCATATCT 60
Db 497 CCCCTTCGACCTAGGCTTTCAGTGTGGCCATGCTGACTGTGACCCCTTGGCATATCT 438

Qy 61 CAGTGAGCCCTTGGCTCAGGTGAACACTATAGTCCAGATCGCTCACATAATTTCTC 120
Db 437 CAGTGAGCCCTTGGCTCAGGTGAACACTATAGTCCAGATCGCTCACATAATTTCTC 378

Qy 121 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 180
Db 377 TAAGGCTCTTCCAGCTTGTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 318

Qy 181 TGTATCCAGCACTGCCCCAGCTCCAGCRCTCTTCGAGATCGACCGGTGGACCTCAGTTC 240
Db 317 TGTATCCAGCACTGCCCCAGCTCCAGCACTCTTCGAGATCGACCGGTGGACCTCAGTTC 258

Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 257 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 224

RESULT 12
US-10-035-855-58/c
; Sequence 58, Application US/10035855
; Publication No. US20030008348A1
; GENERAL INFORMATION:
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3030R1C4
; CURRENT FILING DATE: 2001-12-26
; PRIOR APPLICATION NUMBER: US/10/035,855
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-12-15
; PRIOR APPLICATION NUMBER: 60/112514
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113300
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113430
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113605
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113621
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/114140
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/115552
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/116843
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/125774
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125778
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/125826
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/127035
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 60/127706
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/129122
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/130359
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131272
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/132371
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132379
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/132383
; PRIOR FILING DATE: 1999-05-04
; PRIOR APPLICATION NUMBER: 60/135750
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 60/138166
; PRIOR FILING DATE: 1999-06-08
; PRIOR APPLICATION NUMBER: 60/144791
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/146970

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; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/162506
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380142
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/644848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 09/747259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/816744
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 09/854208
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/854280
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/874503
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 09/869599
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/908,827
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US99/10733
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: PCT/US99/28551
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30720
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: PCT/US00/05601
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: PCT/US00/23522
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 80
; SEQ ID NO 58
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-035-855-58

Query Match          92.0%; Score 273.2; DB 14; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACAGGCGCTTTCAGTGTGGCATGCTCTGACCTGACCCCTTGGCATATCT 60
Db 497 CCCCTTCTGCACAGGCGCTTTCAGTGTGGCATGCTCTGACCTGACCCCTTGGCATATCT 438

Qy 61 CAGTGAGCCCTTGGCGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTTCTC 120
Db 437 CAGTGAGCCCTTGGCGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTTCTC 378

Qy 121 TAAGGCGCTCTTCCAGCCTTGTCTCTGAAAGCGTGAAGGCGTGTCTTCTCTCTTGGCC 180
Db 377 TAAGGCGCTCTTCCAGCCTTGTCTCTGAAAGCGTGAAGGCGTGTCTTCTCTCTTGGCC 318

Qy 181 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 317 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 258

Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 257 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 224

RESULT 13
US-10-174-590-479/c
; Sequence 479, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC42
; CURRENT APPLICATION NUMBER: US/10/174,590
; CURRENT FILING DATE: 2002-06-18
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 479
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-174-590-479

Query Match          92.0%; Score 273.2; DB 14; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCCTTCTGCACAGGCGCTTTCAGTGTGGCATGCTCTGACCTGACCCCTTGGCATATCT 60
Db 497 CCCCTTCTGCACAGGCGCTTTCAGTGTGGCATGCTCTGACCTGACCCCTTGGCATATCT 438

Qy 61 CAGTGAGCCCTTGGCGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTTCTC 120
Db 437 CAGTGAGCCCTTGGCGCTCAGCGTGAACACTATAGTCAGGATCGGCTCACATAAATTTCTC 378

Qy 121 TAAGGCGCTCTTCCAGCCTTGTCTCTGAAAGCGTGAAGGCGTGTCTTCTCTCTTGGCC 180
Db 377 TAAGGCGCTCTTCCAGCCTTGTCTCTGAAAGCGTGAAGGCGTGTCTTCTCTCTTGGCC 318

Qy 181 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 240
Db 317 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGGTGCGACTCAGTTTC 258

Qy 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 257 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 224

RESULT 14
US-10-176-758-479/c
; Sequence 479, Application US/10176758
; Publication No. US20030008353A1
; GENERAL INFORMATION:
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; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deenoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C104
; CURRENT APPLICATION NUMBER: US/10/176,758
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 479
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien
; 10-176-758-479

Query Match 92.0%; Score 273.2; DB 14; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACTAGGCGCTTTCAGTGTGGCATGGTCTGACTCTGACCCCTTGGCATATCT 60
DB 497 CCCCTTCTGCACTAGGCGCTTTCAGTGTGGCATGGTCTGACTCTGACCCCTTGGCATATCT 438
QY 61 CAGTGAGCCCTTGGCGCTCAGCGTGAACACATATAGTCCAGGATCCGCTCACATAAAATTC 120
DB 437 CAGTGAGCCCTTGGCGCTCAGCGTGAACACATATAGTCCAGGATCCGCTCACATAAAATTC 378
QY 121 TAAGGCGCTTTCAGCGCTTGTCTCTGAAACGCTGTAAAGGCACGTYCTCTTCTCTTGGCC 180
DB 377 TAAGGCGCTTTCAGCGCTTGTCTCTGAAACGCTGTAAAGGCACGTYCTCTTCTCTTGGCC 318
QY 181 TGTATCCAGCACCTTGGCGCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGAGTTC 240
DB 317 TGTATCCAGCACCTTGGCGCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGAGTTC 258
QY 241 CGCTGTAGTCTGTGTCTGAGCAGCTTACACACT 274
DB 257 CGCTGTAGTCTGTGTCTGAGCAGCTTACACACT 224

LT 15

10-175-737-479/c
; Sequence 479, Application US/10175737
; Publication No. US20030013153A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deenoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C50
; CURRENT APPLICATION NUMBER: US/10/175,737
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 479

; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-175-737-479
Query Match 92.0%; Score 273.2; DB 14; Length 1470;
Best Local Similarity 99.3%; Pred. No. 1.2e-81;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACTAGGCGCTTTCAGTGTGGCATGGTCTGACTCTGACCCCTTGGCATATCT 60
DB 497 CCCCTTCTGCACTAGGCGCTTTCAGTGTGGCATGGTCTGACTCTGACCCCTTGGCATATCT 438
QY 61 CAGTGAGCCCTTGGCGCTCAGCGTGAACACATATAGTCCAGGATCCGCTCACATAAAATTC 120
DB 437 CAGTGAGCCCTTGGCGCTCAGCGTGAACACATATAGTCCAGGATCCGCTCACATAAAATTC 378
QY 121 TAAGGCGCTTTCAGCGCTTGTCTCTGAAACGCTGTAAAGGCACGTYCTCTTCTCTTGGCC 180
DB 377 TAAGGCGCTTTCAGCGCTTGTCTCTGAAACGCTGTAAAGGCACGTYCTCTTCTCTTGGCC 318
QY 181 TGTATCCAGCACCTTGGCGCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGAGTTC 240
DB 317 TGTATCCAGCACCTTGGCGCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGAGTTC 258
QY 241 CGCTGTAGTCTGTGTCTGAGCAGCTTACACACT 274
DB 257 CGCTGTAGTCTGTGTCTGAGCAGCTTACACACT 224

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Job time : 413 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 24, 2004, 17:36:15 ; Search time 414 Seconds
(without alignments)
3765.889 Million cell updates/sec

Title: US-10-021-416A-1

Perfect score: 297

Sequence: 1 cccctctcactaggccctt.....ggggaggagaacgtccggg 297

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4134886 segs, 2624710521 residues

number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N Geneseq_23Sep04:*

1: Geneseqn1980s:*

2: Geneseqn1990s:*

3: Geneseqn2000s:*

4: Geneseqn2001as:*

5: Geneseqn2001bs:*

6: Geneseqn2002as:*

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10: Geneseqn2003cs:*

11: Geneseqn2003ds:*

12: Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

No.	t	Score	Query Match %	Length	DB ID	Description
1	296.2	99.7	297	6	AAD38313	Aad38313 Secreted
2	273.2	92.0	744	3	Aaz49678	Aaz49678 Human myo
3	273.2	92.0	746	5	Aaf94104	Aaf94104 Primer sp
4	273.2	92.0	747	5	AAC90704	Aac90704 Human sec
5	273.2	92.0	1306	2	Aaz24902	Aaz24902 Human sec
6	273.2	92.0	1306	8	ADA40262	Ada40262 Human sec
7	273.2	92.0	1306	10	ADC73786	Adc73786 Human sec
8	273.2	92.0	1306	10	ADA56426	Ada56426 Gene enco
9	273.2	92.0	1312	5	AAD05462	Aad05462 Human sec
10	273.2	92.0	1315	5	AAD05464	Aad05464 Human sec
11	273.2	92.0	1419	5	Aaf93914	Aaf93914 Human cDN
12	273.2	92.0	1457	2	Aax78923	Aax78923 Human zca
13	273.2	92.0	1457	6	ABQ79391	Abq79391 Human cal
14	273.2	92.0	1462	3	AAAI6621	AAAI6621 Human sec
15	273.2	92.0	1470	3	AAC58116	Aac58116 Human PRO
16	273.2	92.0	1470	3	AAAG36349	Aaa96349 cDNA enco
17	273.2	92.0	1470	4	AAS46164	Aas46164 Human DNA
18	273.2	92.0	1470	6	ABL82222	AbL82222 Human PRO
19	273.2	92.0	1470	6	ABL95711	AbL95711 Human ang
20	273.2	92.0	1470	8	ACA89614	Aca89614 cDNA enco
21	273.2	92.0	1470	8	ACA73624	Aca73624 Human sec

ALIGNMENTS

RESULT 1

AAD38313

ID AAD38313 standard; DNA; 297 BP.

XX AAD38313;

DT 04-OCT-2002 (first entry)

XX Secreted protein gene.

XX Gene characterisation; secreted protein; transgenic mice;

KW neurobiological disorder; neurological disorder; pharmacological therapy;

KW depression; gene therapy; neuropsychological disorder; psychotic illness;

KW antidepressant; neuroleptic; ds.

XX Unidentified.

XX WO200236793-A2.

XX 10-MAY-2002.

XX 05-NOV-2001; 2001WO-US047409.

XX 03-NOV-2000; 2000US-0245852P.

XX 05-NOV-2001; 2001US-00245852.

XX (DELTA-) DELTAGEN INC.

XX Phillips R, Reeder TC, Allen KD;

XX WPI; 2002-479762/51.

XX Novel targeting construct for producing transgenic mouse useful as

PT disease model and for identifying modulators of gene expression, has

PT nucleotide sequences homologous to a secreted protein gene and selectable

PT marker.

XX Example 1; Fig 1; 62pp; English.

XX The present invention relates to compositions and methods relating to the

CC characterisation of gene function. The invention particularly relates to

CC the role of secreted protein genes involved in neuro- biological

CC disorders and depression. The invention further relates to targeting

CC constructs comprising a secreted protein gene. The targeting constructs

Aca05939 Human sec
Aca66773 cDNA enco
Acf20348 Human sec
Acf19734 Human sec
Acd22022 Human sec
Acd13187 Human sec
Acd28838 Human sec
Acd25290 Human sec
Acf00339 Human sec
Aca72396 Novel hum
Acd04920 Novel hum
Acd18381 Human sec
Acd08388 Human sec
Aca88822 Novel hum
Aca70264 Human sec
Acd12486 Novel hum
Acc74401 Human sec
Acd16029 Human sec
Acd25597 Novel hum
Acd18074 Human sec
Acc88361 Human sec
Acd21715 Human sec
Acd18782 Human sec
Abx98392 Human cDN

CC are useful for producing transgenic mice comprising a disruption in a
 CC secreted protein encoding gene. They are useful for producing unique
 CC animal models for studying neuro- biological systems, for testing and
 CC developing new treatments relating to behaviour conditions, which can be
 CC used to test the efficacy of proposed genetic and pharmacological
 CC therapies for human genetic disease, such as neurological,
 CC neuropsychological, or psychotic illnesses. Secreted protein antibodies
 CC are useful for treating depression or ameliorating symptoms associated
 CC with it. The present sequence is a secreted protein gene. This sequence
 CC is used in the exemplification of the invention
 XX
 SQ Sequence 297 BP; 53 A; 98 C; 70 G; 76 T; 0 U; 0 Other;

Query Match 99.7%; Score 296.2; DB 6; Length 297;
 Best Local Similarity 99.3%; Pred. No. 6e-85;
 Matches 295; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCCTTCTGCACTAGGCTTTTCAGTGTTCATGGTCTGACTCTGACCCCTTGGCATATCT 60
 1 CCCCTTCTGCACTAGGCTTTTCAGTGTTCATGGTCTGACTCTGACCCCTTGGCATATCT 60
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTTCT 120
 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTTCT 120
 QY 121 TAAGGCTCTTCCAGCTTCTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 180
 121 TAAGGCTCTTCCAGCTTCTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 180
 QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGGTGCGACTTCATGTC 240
 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGGTGCGACTTCATGTC 240
 QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTGTGGGAGAGAAACGTCGGG 297
 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACTGTGTGGGAGAGAAACGTCGGG 297

RESULT 2
 AAZ49678/c
 ID AAZ49678 standard; cDNA; 744 BP.
 AC AAZ49678;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DD Human myocardium secreted protein-5 coding region.
 KW Human; myocardium secreted protein-5; MSP-5; hypotensive; cardiac;
 KW cardiac cellular process; cardiovascular disorder; cardiomyopathy;
 KW congestive heart failure; hypertension; atherosclerosis;
 KW coronary artery disease; valvular disease; arrhythmia; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT mat_peptide 1..744
 FT /tag= a
 FT /product= "MSP-5"
 FT /note= "Myocardium secreted protein-5"
 FT 1..66
 FT sig_peptide /tag= b
 FT 67..744
 FT mat_peptide /tag= c
 FT /label= Mature_MSP-5
 FT
 FT
 XX WO967385-A1.
 XX
 XX 29-DEC-1999.
 PD
 XX
 XX 22-JUN-1999; 99WO-US013937.
 PF
 XX
 XX 23-JUN-1998; 98US-0090398P.
 PR

PR 29-SRP-1998; 98US-00163285.
 XX (MILL-) MILLENNIUM PHARM INC.
 PA
 XX
 PI Khodadoust MM;
 XX
 DR WPI; 2000-136983/12.
 DR P-PSDB; AAY44629.
 XX
 PT Novel myocardium secreted protein-5 polynucleotides, used to modulate a
 variety of cellular processes.
 XX
 PS Claim 1; Page 92-93; 99pp; English.
 XX

XX The present sequence is the coding region of myocardium secreted protein
 CC -5 (MSP-5) cDNA which was isolated from a cDNA library prepared from a
 CC cardiac tissue sample obtained from a biopsy of a 42 year old woman
 CC suffering from congestive heart failure. The MSP-5 protein has
 CC hypotensive and cardiac activities. It is highly expressed in heart,
 CC brain, placenta, foetal lung, liver, kidney, testis, small intestine and
 CC pituitary gland. The present sequence is used to modulate a variety of
 CC cellular processes, especially cardiac cellular processes. MSP-5 is used
 CC to modulate the activity of one or more proteins involved in a
 CC cardiovascular disorder, e.g. congestive heart failure or cardiomyopathy.
 CC Conditions and diseases which can be treated include hypertension,
 CC atherosclerosis, coronary artery spasm, coronary artery disease, valvular
 CC disease, arrhythmias, and cardiopathies (e.g. hypertrophic, dilative, or
 CC restrictive cardiomyopathies), and disorders related to under or over
 CC expression of MSP-5
 XX
 SQ Sequence 744 BP; 208 A; 143 C; 254 G; 139 T; 0 U; 0 Other;

Query Match 92.0%; Score 273.2; DB 3; Length 744;
 Best Local Similarity 99.3%; Pred. No. 2.2e-77;
 Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCTTCTGCACTAGGCTTTTCAGTGTTCATGGTCTGACTCTGACCCCTTGGCATATCT 60
 390 CCCTTCTGCACTAGGCTTTTCAGTGTTCATGGTCTGACTCTGACCCCTTGGCATATCT 331
 Db
 QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTTCT 120
 330 CAGTGAGCCCTTGGCTCAGCGTGAACACTATAGTCAGGATCCGCTCACATAAATTTCT 271
 Db
 QY 121 TAAGGCTCTTCCAGCTTCTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 180
 270 TAAGGCTCTTCCAGCTTCTCTCTGAAACGCTGTAAGGCACGTGCTCTTCTCTTGGC 211
 Db
 QY 181 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGGTGCGACTTCATGTC 240
 210 TGTATCCAGCACTGCCCCAGCTCCAGCCTCTCTCGAGATCGACCGGTGCGACTTCATGTC 151
 QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
 150 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 117
 Db

RESULT 3
 AAF94104/c
 ID AAF94104 standard; DNA; 746 BP.
 XX
 AC AAF94104;
 XX
 XX 23-MAY-2001 (first entry)
 DT
 XX
 XX Primer specific for DNA encoding secretory/membrane protein SRQ ID 538.
 XX Human; secretory protein; membrane protein; vaccine; gene therapy;
 KW rheumatoid arthritis; diabetes; PCR primer; ss.
 XX
 OS Synthetic.
 XX
 PN EP1067182-A2.

```
XX 10-JAN-2001.
XX
XX 07-JUL-2000; 2000EP-00114090.
XX
XX 08-JUL-1999; 99JP-00194179.
XX
XX 11-JAN-2000; 2000JP-00118775.
XX
XX 02-MAY-2000; 2000JP-00183766.
XX
XX (HELI-) HELIX RES INST.
XX
XX Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
XX WPI; 2001-093989/11.
XX
XX Nucleic acids encoding secretory proteins/membrane proteins, useful in
XX gene therapy or as candidate target molecules in drug development.
XX
XX Claim 4; SEQ ID NO 538; 609pp + Sequence Listing; English.
XX
XX This invention relates to nucleic acid sequences AAF93744 - AAF93916
XX which encode human secretory or membrane proteins represented by AAB88317
XX - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and
XX AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the
XX invention. The invention also includes methods for the production of
XX antibodies directed against the proteins, and cDNA sequences, which can
XX be used in vaccines. The polynucleotide sequences can be used in gene
XX therapy. The polynucleotide sequences and the proteins they encode may be
XX used in the prevention, treatment and diagnosis of diseases associated
XX with inappropriate secretory protein/membrane protein expression. The
XX nucleic acids and complementary sequences may also be used as DNA probes
XX in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect
XX and quantitate the presence of similar nucleic acid sequences in samples.
XX They may also be used to study the expression and function of secretory
XX proteins/membrane polypeptides and their role in metabolism. The
XX polypeptides may be used as antigens in the production of antibodies
XX against them and in assays to identify modulators (agonists and
XX antagonists) of expression and activity. The antibodies and antagonists
XX may also be used as therapeutic agents to down regulate expression and
XX activity. The antibodies may also be used as diagnostic agents for
XX detecting the presence of the polypeptides in samples (e.g. by enzyme
XX linked immunosorbent assay (ELISA)). Examples of diseases which may be
XX treated include rheumatoid arthritis and diabetes
XX
XX Sequence 746 BP; 201 A; 142 C; 251 G; 149 T; 0 U; 3 Other;
XX
XX Query Match 92.0%; Score 273.2; DB 5; Length 746;
XX Best Local Similarity 99.3%; Pred. No. 2.2e-77;
XX Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 CCCCTTCTGCACCTAGGCGCTTTGAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 60
XX |||||
XX 447 CCCCTTCTGCACCTAGGCGCTTTGAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 388
XX |||||
XX 61 CAGTGAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACATAAATTC 120
XX |||||
XX 387 CAGTGAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACATAAATTC 328
XX |||||
XX 121 TAAGGCGCTTCTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 180
XX |||||
XX 327 TAAGGCGCTTCTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 268
XX |||||
XX 181 TGTATCCAGCACTTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 240
XX |||||
XX 267 TGTATCCAGCACTTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 208
XX |||||
XX 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTTACACACT 274
XX |||||
XX 207 CGCCTGTAGCTCTGTGCTCAGCAGCTTTACACACT 174
XX |||||
XX
XX RESULT 4
XX AAC90704/c
```

```
ID AAC90704 standard; cDNA; 747 BP.
XX
XX AAC90704;
XX
XX 14-MAR-2001 (first entry)
XX
XX Human secretory protein TGC-623 nucleotide sequence SEQ ID NO:19.
XX
XX Human; secretory protein; cancer; immune disease; infectious disease;
XX lung function disorder; liver function disorder; antiinflammatory;
XX gastrointestinal disorder; cytostatic; haematopoietic; anticoagulant;
XX immunomodulatory; hepatotropic; cell proliferation-stimulant;
XX cell migratory agent; cell differentiation-inducer; ss.
XX
XX Homo sapiens.
XX
XX WO2000071581-A1.
XX
XX 30-NOV-2000.
XX
XX 19-MAY-2000; 2000WO-JP003221.
XX
XX 20-MAY-1999; 99JP-00140229.
XX
XX (TAKE ) TAKEDA CHEM IND LTD.
XX
XX Itoh Y, Mogi S, Tanaka H, Ohkubo S, Ogi K;
XX WPI; 2001-032023/04.
XX P-PSDB; AAB36664.
XX
XX Novel secretory protein and its salt with e.g. anti-cancer, anti-
XX inflammatory and hematopoietic, effects, applicable as drugs in remedies
XX and preventives to treat diseases like cancer and immune diseases.
XX
XX Example 4; Page 99; 122pp; Japanese.
XX
XX AAC90701 to AAC90715 encode the human secretory proteins given in
XX AAB36661 to AAB36675. The proteins can have cytostatic, anti-
XX inflammatory, haematopoietic, anti-coagulant, immunomodulatory and
XX hepatotropic activities, and can be used as cell migratory agents, cell
XX proliferation-stimulants and cell differentiation-inducers. The proteins
XX are useful in the treatment and prevention of diseases such as cancer,
XX lung function disorder, liver function disorder, gastrointestinal
XX disorder and immune diseases. AAC90716 to AAC90755 represent PCR primers
XX which are used in the exemplification of the present invention
XX
XX Sequence 747 BP; 209 A; 143 C; 255 G; 140 T; 0 U; 0 Other;
XX
XX Query Match 92.0%; Score 273.2; DB 5; Length 747;
XX Best Local Similarity 99.3%; Pred. No. 2.2e-77;
XX Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 CCCCTTCTGCACCTAGGCGCTTTGAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 60
XX |||||
XX 390 CCCCTTCTGCACCTAGGCGCTTTGAGTGTGCGATGGTCTGACTCTGACCCCTTGGCATATCT 331
XX |||||
XX 61 CAGTGAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACATAAATTC 120
XX |||||
XX 330 CAGTGAGCCCTTGGCTTCAGCGTGAACACTATATAGTCAGGATCCGCTCACATAAATTC 271
XX |||||
XX 121 TAAGGCGCTTCTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 180
XX |||||
XX 270 TAAGGCGCTTCTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 211
XX |||||
XX 181 TGTATCCAGCACTTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 240
XX |||||
XX 210 TGTATCCAGCACTTCCAGCGCTTGTCTCTGAAACGCTGTAGGCGACGCTCTCTCTCTTGGCC 151
XX |||||
XX 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTTACACACT 274
XX |||||
XX 150 CGCCTGTAGCTCTGTGCTCAGCAGCTTTACACACT 117
XX |||||
```

```
RESULT 5
AAZ24902/c
ID AAZ24902 standard; DNA; 1306 BP.
XX
AC AAZ24902;
XX
DT 02-DEC-1999 (first entry)
XX
DE Human secreted protein gene 92 clone HATAC53.
XX
KW Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
KW cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX
OS Homo sapiens.
XX
PN WO9947540-A1.
XX
PD 23-SEP-1999.
XX
PF 18-MAR-1999; 99WO-US0005804.
XX
PR 19-MAR-1998; 98US-0078563P.
PR 19-MAR-1998; 98US-0078566P.
PR 19-MAR-1998; 98US-0078573P.
PR 19-MAR-1998; 98US-0078574P.
PR 19-MAR-1998; 98US-0078576P.
PR 19-MAR-1998; 98US-0078577P.
PR 19-MAR-1998; 98US-0078578P.
PR 19-MAR-1998; 98US-0078579P.
PR 19-MAR-1998; 98US-0078581P.
PR 01-APR-1998; 98US-0080312P.
PR 01-APR-1998; 98US-0080313P.
PR 01-APR-1998; 98US-0080314P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Ni J, Rosen CA, Yu G, Young PE, Feng P, Soppet DR;
PI Wei Y, Endress GA, Duan RD, Kyaw H, Ebner R, Lafleur DW, Olsen HS;
PI Shi Y, Moore PA;
XX
P-WPI; 1999-562050/47.
P-PSDB; AAY41399.
XX
PT New isolated human genes, useful for diagnosis and treatment of e.g.
PT cancers, neurological disorders, immune diseases, inflammation or blood
PT disorders.
XX
PS Claim 1; Page 353; 484pp; English.
XX
CC This sequence represents a nucleic acid molecule which encodes a secreted
CC human protein. The gene number, and the clone it is derived from, are
CC detailed in the descriptor line. The gene can be used to generate fusion
CC proteins by linking to the gene to a human immunoglobulin Fc portion
CC (e.g. AAZ24902) for increasing the stability of the fused protein as
CC compared to the human protein only. The invention relates to 95 novel
CC genes and their fragments (nucleic acid sequences: AAZ24811-224907; amino
CC acid sequences AAY41308-Y41404) which are useful for preventing, treating
CC or ameliorating medical conditions e.g. by protein or gene therapy. Also,
CC pathological conditions can be diagnosed by determining the amount of the
CC new polypeptides in a sample or by determining the presence of mutations
CC in the new polynucleotides. Specific uses are described for each of the
CC 95 polynucleotides, based on which tissues they are most highly expressed
CC in (see AAZ24811 for described uses)
XX
SQ Sequence 1306 BP; 334 A; 291 C; 377 G; 300 T; 0 U; 4 Other;
```

```
Query Match 92.0%; Score 273.2; DB 2; Length 1306;
Best Local Similarity 99.3%; Pred. No. 2.7e-77;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCACCTAGGCGCTTTTCAGTGTTCATGTTGCGATGTTGACCTCTGACCTTGGCATATCT 60
DB 488 CCCCTTCTGCACCTAGGCGCTTTTCAGTGTTCATGTTGCGATGTTGACCTCTGACCTTGGCATATCT 429
QY 61 CAGTGAGCCCTTGGCTCAGCGTGAACACTATATAGTCAGGATCGGTCACATAAATCTC 120
DB 428 CAGTGAGCCCTTGGCTCAGCGTGAACACTATATAGTCAGGATCGGTCACATAAATCTC 369
QY 121 TAAGGCTCTTCCAGCGCTTGTCTCTGAAACGCTGAAGCACCTGCTCTTCTTCTTGGCC 180
DB 368 TAAGGCTCTTCCAGCGCTTGTCTCTGAAACGCTGAAGCACCTGCTCTTCTTCTTGGCC 309
QY 181 TGTATCCAGCACCTGCGCCAGCTCCAGCCTCTCGAGATCGACCGTGGACTTCAGTTTC 240
DB 308 TGTATCCAGCACCTGCGCCAGCTCCAGCCTCTCGAGATCGACCGTGGACTTCAGTTTC 249
QY 241 CGCCTGTAGCTCTGTGCTCAGGAGCTTACACACT 274
DB 248 CGCCTGTAGCTCTGTGCTCAGGAGCTTACACACT 215
RESULT 6
ADA40282/c
ID ADA40262 standard; cDNA; 1306 BP.
XX
AC ADA40262;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human secreted protein encoding cDNA.
XX
KW Human; secreted protein; cancer; hyperproliferative disorder;
KW rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
KW anaemia; allergic reaction; asthma; cardiovascular disorder;
KW wound healing; cytostatic; immunosuppressive; neutrotropic; neuroprotective;
KW antiviral; anti-allergic; hepatotropic; antidiabetic; anti-inflammatory;
KW vulnery; cardiant; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO2002102993-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US0008123.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
PWI; 2003-175238/17.
XX
PT New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing,
PT preventing or treating cancer or other hyperproliferative disorder,
PT asthma, allergies or AIDS.
XX
PS Claim 9; SEQ ID NO 644; 3205pp; English.
XX
CC The invention relates to novel genes ADA39629-ADA40565 and proteins
CC ADA40566-ADA41501 for human secreted proteins, useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The polypeptides, nucleic acid molecules, antibodies or their
CC fragments, and agonists or antagonists that bind to the polypeptide are
CC useful for preparing a diagnostic or pharmaceutical composition for
```


CC diagnosing or treating cancer or other hyperproliferative disorder. The
 CC polypeptides and nucleic acid molecules are also useful for detecting,
 CC preventing, diagnosing, prognosticating, treating or ameliorating cancer
 CC or other hyperproliferative disorders including neoplasms, autoimmune
 CC disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
 CC erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
 CC anaemia), haematopoietic or haematological disorders (e.g. anaemia,
 CC thrombocytopenia), allergic reactions including asthma or eczema,
 CC inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
 CC bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
 CC Alzheimer's disease or Parkinson's disease), cardiovascular disorders
 CC (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
 CC fungal or viral infections including HIV/AIDS), or wound healing and
 CC disorders of epithelial cell proliferation. The nucleic acids are also
 CC useful for chromosome identification, radiation hybrid mapping or long-
 CC range restriction mapping, as molecular weight markers, or as
 CC hybridization or diagnostic probes. The polypeptides and antibodies are
 CC useful for providing immunological probes for differential identification
 CC of the tissues immunohistochemistry assays. Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX
 SQ Sequence 1306 BP; 334 A; 291 C; 377 G; 300 T; 0 U; 4 Other;

Query Match 92.0%; Score 273.2; DB 8; Length 1306;
 Best Local Similarity 99.3%; Pred. No. 2.7e-77;
 Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCATGTCTGACTCTGACCCCTGGCATATCT 60
 DB |||||
 488 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCATGTCTGACTCTGACCCCTGGCATATCT 429
 QY 61 CAGTGAGCCCTTCGGCTCAGCGTGAACACTATAGTCCAGGATCGCTCACATAAATTC 120
 DB |||||
 428 CAGTGAGCCCTTCGGCTCAGCGTGAACACTATAGTCCAGGATCGCTCACATAAATTC 369
 QY 121 TAAGGCGCTCTTCCAGCGCTTCTCTCTGAAACGCTGTAGGACCGTGYCTCTTCTCTTGGCC 180
 DB |||||
 368 TAAGGCGCTCTTCCAGCGCTTCTCTCTGAAACGCTGTAGGACCGTGYCTCTTCTCTTGGCC 309
 QY 181 TGTATCCAGCACCTGCCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGCATCTTC 240
 DB |||||
 308 TGTATCCAGCACCTGCCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGCATCTTC 249
 QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
 DB |||||
 248 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 215

XX
 RESULT 7

ADCT3786/C

ID ADCT3786 standard; DNA; 1306 BP.

XX
 AC ADCT3786;

XX
 DT 01-JAN-2004 (first entry)

XX
 DE Human secreted protein-related DNA - SEQ ID 419.

XX antianaemic; antirheumatic; antiarthritic; antiinflammatory; antithyroid;
 KW antidiabetic; immunosuppressive; dermatological; nephrotropic;
 KW antiparkinsonian; neuroprotective; neurotropic; antibacterial; virucide;
 KW fungicide; antiparasitic; antiarteriosclerotic; vulnerary; cytostatic;
 KW haemopoietic; haematologic; anaemia; autoimmune disorder;
 KW rheumatoid arthritis; inflammation; Grave's disease; diabetes;
 KW systemic lupus erythematosus; glomerulonephritis; neurodegenerative;
 KW Parkinson's; Alzheimer's; wound; hyperproliferative; atherosclerosis;
 KW cancer; bacterial; viral; fungal; parasitic infection; gene therapy;
 KW human; gene; ds.

XX
 OS Homo sapiens.

XX

PN W02003038063-A2.
 XX
 PD 08-MAY-2003.
 XX
 PF 19-MAR-2002; 2002WO-US008277.
 XX
 PR 21-MAR-2001; 2001US-0277340P.
 PR 19-JUL-2001; 2001US-0306171P.
 PR 13-NOV-2001; 2001US-0331287P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;
 PI WPI; 2003-430516/40.
 XX P-PSDB; ADC74401.

XX New human secreted polypeptide for diagnosing, preventing or treating
 PT hemopoietic or hematologic disorders (e.g. anemia), autoimmune
 PT disorders (e.g. diabetes) or hyperproliferative disorders (e.g. cancer or
 PT atherosclerosis).

XX Claim 27; SEQ ID NO 419; 2272pp; English.

XX The invention relates to a novel human secreted polypeptide comprising a
 CC defined sequence given in the specification. The polypeptide, nucleic
 CC acid molecule, antibody, agonist or antagonist of the invention may be
 CC useful for preparing a composition for diagnosing or treating a
 CC haematopoietic or haematologic disorder such as anaemia, autoimmune
 CC disorders such as rheumatoid arthritis, inflammation, Grave's disease,
 CC diabetes, systemic lupus erythematosus or glomerulonephritis,
 CC neurodegenerative disorders including Parkinson's disease and Alzheimer's
 CC disease, wounds and hyperproliferative disorders including
 CC atherosclerosis or cancer, as well as bacterial, viral, fungal or
 CC parasitic infections. The polypeptide may also be used during gene
 CC therapy procedures and for identifying a binding partner by contacting
 CC the polypeptide with a binding partner and determining whether the
 CC binding partner increases or decreases the activity of the polypeptide.
 CC The current sequence is that of the human secreted protein-related DNA of
 CC the invention.

XX SQ Sequence 1306 BP; 334 A; 291 C; 377 G; 300 T; 0 U; 4 Other;

Query Match 92.0%; Score 273.2; DB 10; Length 1306;

Best Local Similarity 99.3%; Pred. No. 2.7e-77;

Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCATGTCTGACTCTGACCCCTGGCATATCT 60
 DB |||||
 488 CCCCTTCTGCACCTAGGCGCTTTCAGTGTGGCATGTCTGACTCTGACCCCTGGCATATCT 429
 QY 61 CAGTGAGCCCTTCGGCTCAGCGTGAACACTATAGTCCAGGATCGCTCACATAAATTC 120
 DB |||||
 428 CAGTGAGCCCTTCGGCTCAGCGTGAACACTATAGTCCAGGATCGCTCACATAAATTC 369
 QY 121 TAAGGCGCTCTTCCAGCGCTTCTCTCTGAAACGCTGTAGGACCGTGYCTCTTCTCTTGGCC 180
 DB |||||
 368 TAAGGCGCTCTTCCAGCGCTTCTCTCTGAAACGCTGTAGGACCGTGYCTCTTCTCTTGGCC 309
 QY 181 TGTATCCAGCACCTGCCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGCATCTTC 240
 DB |||||
 308 TGTATCCAGCACCTGCCGCCAGCTCCAGRCCTCTCGAGATCGACCGGTGGCATCTTC 249
 QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
 DB |||||
 248 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT 215

XX
 RESULT 8

ADA56426/C

ID ADA56426 standard; DNA; 1306 BP.

XX
 AC ADA56426;

```
XX
DT 20-NOV-2003 (first entry)
XX
DE Gene encoding human secreted protein #34.
XX
KW immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;
KW cytotatic; cerebroprotective; neuroprotective; nootropic;
KW cardiovascular; antiarteriosclerotic; gene therapy;
KW human secreted protein; immune disorder; inflammation;
KW respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;
KW multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW triple helix formation; antisense gene therapy; forensic biology; ds;
KW gene.
XX
OS Homo sapiens.
XX
XX WO2002102994-A2.
XX
XX 27-DEC-2002.
XX
XX 19-MAR-2002; 2002WO-US0008278.
XX
XX 21-MAR-2001; 2001US-0277340P.
XX
XX 19-JUL-2001; 2001US-0306171P.
XX
XX 13-NOV-2001; 2001US-0331287P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2003-167512/16.
XX
XX P-PSDB; ADA57322.
XX
XX New human secreted polypeptides and polynucleotides, useful for
XX diagnosing, treating or preventing e.g. immune disorders, inflammatory
XX conditions, respiratory disorders, cancers, CNS disorders, or
XX neurodegenerative disorders.
XX
XX Claim 21; SEQ ID NO 615; 1754pp; English.
XX
XX The invention relates to 592 new human secreted polypeptides useful for
XX diagnosing, treating or preventing e.g. immune disorders, inflammatory
XX conditions, respiratory disorders, cancers, CNS disorders, or
XX neurodegenerative disorders, or polypeptides comprising an amino acid
XX sequence at least 95% identical to the new sequences. The polypeptides,
XX antibodies or antibody fragments that bind to the polypeptides, nucleic
XX acids encoding the polypeptides, agonists or antagonists that binds to
XX the polypeptide, are useful in preparing diagnostic or pharmaceutical
XX compositions for diagnosing, treating or preventing an e.g. immune
XX disorders, inflammatory conditions (e.g. inflammatory bowel disease,
XX nephritis or Crohn's disease), respiratory disorders (e.g. asthma and
XX allergy), cancers (e.g. gastric, ovarian or lung cancer), CNS disorders
XX (e.g. multiple sclerosis or ischaemic brain injury), neurodegenerative
XX disorders (e.g. Parkinson's disease or Alzheimer's disease), and
XX cardiovascular disorders (e.g. atherosclerosis or myocarditis). The
XX polynucleotides are useful for chromosome identification, chromosome
XX mapping, for controlling gene expression through triple helix formation
XX or antisense DNA or RNA, in gene therapy, for identifying individuals
XX from minute biological samples, in forensic biology, and as hybridization
XX probes. The polypeptides are useful for as molecular weight markers on
XX sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)
XX gels, to raise antibodies, for testing biological activities, and for
XX treating or preventing neural disorders, immune system disorders,
XX muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,
XX renal, proliferative and/or cancerous diseases. This sequence corresponds
XX to a gene encoding one of the polypeptide of the invention. Note: The
XX sequence data for this patent did form part of the printed specification,
XX but was obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 1306 BP; 334 A; 291 C; 377 G; 300 T; 0 U; 4 Other;
```

```
Query Match          92.0%; Score 273.2; DB 10; Length 1306;
Best Local Similarity 99.3%; Pred. No. 2.7e-77;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCTTCTGCACTAGGCTTTTCAGTGTTCGATGTCGCTGACCTTGCGCATATCT 60
DB 488 CCCTTCTGCACTAGGCTTTTCAGTGTTCGATGTCGCTGACCTTGCGCATATCT 429
QY 61 CAGTAGCCCTTTCGCTCAGCGTGAACACTATATAGTCAGGATCCGCTACATAAATCTC 120
DB 428 CAGTAGCCCTTTCGCTCAGCGTGAACACTATATAGTCAGGATCCGCTACATAAATCTC 369
QY 121 TAGGCGCTTTCAGCGCTTTCCTCTGAAAGCGCTGTAAGCGACGCTCTCTCTTCCCTTGGCC 180
DB 368 TAAGGCGCTTTCAGCGCTTTCCTCTGAAAGCGCTGTAAGCGACGCTCTCTCTTCTCTTGGCC 309
QY 181 TGTATCCAGCACCTGCGCCCGCCAGCTCCAGRCCTCTCGAGATCGACCGCTGCGACTCAGTTC 240
DB 308 TGTATCCAGCACCTGCGCCCGCCAGCTCCAGRCCTCTCGAGATCGACCGCTGCGACTCAGTTC 249
QY 241 CGCCTTAGCTCTGTGCTCAGCAGCTTACACACT 274
DB 248 CGCCTTAGCTCTGTGCTCAGCAGCTTACACACT 215

RESULT 9
AAD05462/c
ID AAD05462 standard; cDNA; 1312 BP.
XX
XX AAD05462;
XX
DT 17-JUL-2001 (first entry)
XX
DE Human secreted protein-encoding gene 23 cDNA clone HNTSR57, SEQ ID NO:84.
XX
XX Human; secreted protein; proliferative disorder; cancer; tumour;
XX foetal abnormality; developmental abnormality; haematopoietic disorder;
XX immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
XX inflammation; allergy; neurological disorder; Alzheimer's disease;
XX Parkinson's disease; cognitive disorder; schizophrenia; asthma;
XX skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
XX cardiovascular disorder; angiotensin-related disorder; kidney disorder;
XX gastrointestinal disorder; pregnancy-related disorder;
XX endocrine disorder; infection; wound healing; vulnery; cell culture;
XX chemotaxis; food additive; gene therapy; binding partner identification;
XX ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 69..674
XX FT /*tag= a
XX FT /product= "Human secreted protein"
XX FT /note= "CDS does not include start codon"
XX FT /partial
XX FT sig_peptide 69..71
XX FT /*tag= b
XX FT mat_peptide 72..671
XX FT /*tag= c
XX FT /product= "Mature human secreted protein"
XX
XX WO200134623-A1.
XX
XX 17-MAY-2001.
XX
XX 01-NOV-2000; 2000WO-US030037.
XX
XX 05-NOV-1999; 99US-0163577P.
XX
XX 30-JUN-2000; 2000US-0215137P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX
```

PI Ruben SM, Komatsoulis GA, Moore PA;
XX WPI; 2001-316490/33.
XX P-PSDB; AAE01619.
XX Nucleic acids encoding 29 human secreted polypeptides, useful for
PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's disease
PT and diabetic retinopathy.
XX
XX Claim 1; Page 469; 535pp; English.
XX
XX AAD05389-AA005473 represent cDNAs corresponding to 29 human secreted
CC protein genes, and AAE01546-AAE01630 represent the proteins they encode.
CC AAE01631-AAE01660 represent human secreted protein fragments or variants.
CC The secreted proteins and their genes are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, autoimmune
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs
CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein-encoding cDNA of the
CC invention
XX
SQ Sequence 1312 BP; 334 A; 288 C; 382 G; 304 T; 0 U; 4 Other;
Query Match 92.0%; Score 273.2; DB 5; Length 1312;
Best Local Similarity 99.3%; Pred. No. 2.7e-77;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCCTTCTGCACTAGGCTTTTCAGTGTGGCATGCTCTGACTCTGACCCCTGGCATATCT 60
494 CCCTTCTGCACTAGGCTTTTCAGTGTGGCATGCTCTGACTCTGACCCCTGGCATATCT 435
OY 61 CAGTGAGCCCTTGGCTCAGCGTGACACTATAGTCCAGGATCGCTCACATAAATTCCTC 120
Db 434 CAGTGAGCCCTTGGCTCAGCGTGACACTATAGTCCAGGATCGCTCACATAAATTCCTC 375
OY 121 TAAGGCTCTTCCAGCCCTTCTCTGAAACGCTGTAGGACAGCTGYCTCTTCTCTTGGCC 180
Db 374 TAAGGCTCTTCCAGCCCTTCTCTGAAACGCTGTAGGACAGCTGYCTCTTCTCTTGGCC 315
OY 181 TGTATCAGACACTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGTGGCATCTGCTTC 240
Db 314 TGTATCAGACACTGCCCCAGCTCCAGRCCTCTCGAGATCGACCGTGGCATCTGCTTC 255
OY 241 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 274
Db 254 CGCTGTAGCTCTGTGCTCAGCAGCTTACACACT 221
RESULT 10
AAD05464/c
ID AAD05464 standard; cDNA; 1315 BP.
XX
AC AAD05464;

XX 17-JUL-2001 (first entry)
XX Human secreted protein-encoding gene 23 cDNA clone HNTSR57, SEQ ID NO:86.
DE
XX Human; secreted protein; proliferative disorder; cancer; tumour;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW inflammation; allergy; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
KW cardiovascular disorder; angiogenic disorder; kidney disorder;
KW gastrointestinal disorder; pregnancy-related disorder;
KW endocrine disorder; infection; wound healing; vulnery; cell culture;
KW chemotaxis; food additive; gene therapy; binding partner identification;
XX ss.
XX Homo sapiens.
OS
XX Key Location/Qualifiers
XX CDS 58..645
FT /*tag= a
FT /product= "Human secreted protein"
FT /note= "CDS does not include start codon"
FT /partial
FT sig_peptide 58..60
FT /*tag= b
FT mat_peptide 61..642
FT /*tag= c
FT /product= "Mature human secreted protein"
XX
XX WO200134623-A1.
XX
XX 17-MAY-2001.
XX
XX 01-NOV-2000; 2000WO-US030037.
XX
XX 05-NOV-1999; 99US-0163577P.
PR 30-JUN-2000; 2000US-0215137P.
PR
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Komatsoulis GA, Moore PA;
XX WPI; 2001-316490/33.
DR P-PSDB; AAE01621.
DR
XX Nucleic acids encoding 29 human secreted polypeptides, useful for
PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's disease
PT and diabetic retinopathy.
XX
XX Claim 1; Page 470-471; 535pp; English.
PS
XX AAD05389-AA005473 represent cDNAs corresponding to 29 human secreted
CC protein genes, and AAE01546-AAE01630 represent the proteins they encode.
CC AAE01631-AAE01660 represent human secreted protein fragments or variants.
CC The secreted proteins and their genes are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, autoimmune
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs

CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein-encoding cDNA of the
CC invention
XX Sequence 1315 BP; 355 A; 285 C; 378 G; 297 T; 0 U; 0 Other;

Query Match	92.0%;	Score 273.2;	DB 5;	Length 1315;
Best Local Similarity	99.3%;	Fred. No. 2.7e-77;		
Matches 272;	Conservative 2;	Mismatches 0;	Indels 0;	Gaps 0;
Qy 1	CCCCCTTCGCACTAGGCGCTTTTCAGTGTGGCCATGCTTCGACTCGACCCCTTGGCATACTCT	60		
483	CCCCCTTCGCACTAGGCGCTTTTCAGTGTGGCCATGCTTCGACTCGACCCCTTGGCATACTCT	424		
61	CAGTGAAGCCCTTGGCGCTCAGCGTGAACATATAGTCCAGGATCCGCTCACAATAATTCCTC	120		
423	CAGTGAAGCCCTTGGCGCTCAGCGTGAACATATAGTCCAGGATCCGCTCACAATAATTCCTC	364		
Qy 121	TAAGGCGCTCTTTCCAGCCCTTGCTCTGTAACCGCTGTAAAGCACGTGYCTCTTCCTCTTGCC	180		
363	TAAGGCGCTCTTTCCAGCCCTTGCTCTGTAACCGCTGTAAAGCACGTGTCTCTTCCTCTTGCC	304		
Qy 181	TGATATCAGACACTGCCGCCAGCTCCAGRCCTCTTCGAGATCGACCGGTGGCACTCAGTTC	240		
303	TGATATCAGACACTGCCGCCAGCTCCAGRCCTCTTCGAGATCGACCGGTGGCACTCAGTTC	244		
Qy 241	CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT	274		
243	CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT	210		

RESULT 11	
AAF93914/c	
ID AAF93914 standard; cDNA; 1419 BP.	
XX	
AAF93914;	
XX	
AC AC	
XX	
23-MAY-2001 (first entry)	
XX	
DE Human cDNA encoding a membrane or secretory protein clone PSEC0237.	
XX	
Human; secretory protein; membrane protein; vaccine; gene therapy;	
XX	
rheumatoid arthritis; diabetes; ss.	
XX	
Homo sapiens.	
XX	
EP1067182-A2.	
XX	
10-JAN-2001.	
XX	
07-JUL-2000; 2000EP-00114030.	
XX	
08-JUL-1999; 95JP-00194179.	
XX	
11-JAN-2000; 2000JP-00118775.	
XX	
02-MAY-2000; 2000JP-00183766.	
XX	
(HELI-) HELIX RES INST.	
XX	
XX	
Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;	
PI	
WPI: 2001-093989/11.	
DR	
P-PSDB; AAB88487.	
XX	
XX	
P Nucleic acids encoding secretory proteins/membrane proteins, useful in	
PT gene therapy or as candidate target molecules in drug development.	
XX	
PS Claim 1; SEQ ID NO 345; 609bp + Sequence Listing; English.	

XX This invention relates to nucleic acid sequences AAF93744 - AAF93916
CC which encode human secretory or membrane proteins represented by AAB88317
CC - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and
CC AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the
CC invention. The invention also includes methods for the production of
CC antibodies directed against the proteins, and cDNA sequences, which can
CC be used in vaccines. The polynucleotide sequences can be used in gene
CC therapy. The polynucleotide sequences and the proteins they encode may be
CC used in the prevention, treatment and diagnosis of diseases associated
CC with inappropriate secretory protein/membrane protein expression. The
CC nucleic acids and complementary sequences may also be used as DNA probes
CC in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect
CC and quantitate the presence of similar nucleic acid sequences in samples.
CC They may also be used to study the expression and function of secretory
CC proteins/membrane polypeptides and their role in metabolism. The
CC polypeptides may be used as antigens in the production of antibodies
CC against them and in assays to identify modulators (agonists and
CC antagonists) of expression and activity. The antibodies and antagonists
CC may also be used as therapeutic agents to down regulate expression and
CC activity. The antibodies may also be used as diagnostic agents for
CC detecting the presence of the polypeptides in samples (e.g. by enzyme
CC linked immunosorbant assay (ELISA). Examples of diseases which may be
CC treated include rheumatoid arthritis and diabetes

XX Sequence 1419 BP; 363 A; 307 C; 422 G; 327 T; 0 U; 0 Other

XX

Query Match	92.0%;	Score	273.2;	DB	5;	Length	1419;
Best Local Similarity	99.3%;	Pred. No.	2.8e-77;				
Matches	272;	Conservative	2;	Mismatches	0;	Indels	0;
						Gaps	0;
Qy	1	CCCTTTCTGCACCTAGAGCCCTTTTCAGTGTGTGCATGGTCTGACTCTGCACCCCTTGGCATATCT	60				
Db	447	CCCTTTCTGCACCTAGAGCCCTTTTCAGTGTGTGCATGGTCTGACTCTGCACCCCTTGGCATATCT	388				
Qy	61	CAGTGAGCCCTTTCGGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACAATAATCTC	120				
Db	387	CAGTGAGCCCTTTCGGCTCAGCGTGAACACTATAGTCCAGATCCGCTCACAATAATCTC	328				
Qy	121	TAAAGGCCTCTTCCAGGCCTTGTCTCTGAAACGGCTGTAAGGCACGCTGYCTCTTCTCTTGCC	180				
Db	327	TAAAGGCCTCTTCCAGGCCTTGTCTCTGAAACGGCTGTAAGGCACGCTGYCTCTTCTCTTGCC	268				
Qy	181	TGTATCCAGCACTGCCAGCTCCAGTCCTCTCCAGATCGACCGGTGCAGTCAGTTTC	240				
Db	267	TGTATCCAGCACTGCCAGCTCCAGTCCTCTCCAGATCGACCGGTGCAGTCAGTTTC	208				
Qy	241	CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT	274				
Db	207	CGCCTGTAGCTCTGTGCTCAGCAGCTTACACACT	174				

RESULT	12
AAAX78923/c	
ID	AAAX78923 standard; DNA; 1457 BP.
XX	
AC	AAAX78923;
XX	
DT	09-SEP-1999 (first entry)
XX	
DE	Human zcasc-1 DNA allele 2.
XX	
KW	Calcitonin-like protein 1; zcasc-1; human; osteopathic; antidiabetic;
KW	hypotensive; vasodilator; neuromodulator; peripheral organ; treatment;
KW	Paget's disease; hypercalcaemia; osteoporosis; Raynaud's disease;
KW	type I diabetes; hypertension; ss.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	CDS
FT	63. .809
FT	/*tag= a
FT	/product= "zcasc-1"

RESULT 14
AAA16621 standard; cDNA; 1462 BP.
AC AAA16621;
XX
DT 16-JUN-2000 (first entry)
XX
DE Human secreted protein clone pj193_5 nucleotide sequence SEQ ID NO:7.
XX
XX Human; secreted protein; immunostimulant; immunosuppressant; virucide;
KW antibacterial; antifungal; cytostatic; antiinflammatory; dermatological;
KW antidiabetic; antiasthmatic; antiarthritic; antirheumatic; protozoacide;
KW antithyroid; immune deficiency; severe combined immunodeficiency; SCID;
KW infection; HIV; hepatitis; malaria; autoimmune disorder; systemic lupus;
KW connective tissue disease; multiple sclerosis; erythematosis;
KW rheumatoid arthritis; autoimmune pulmonary inflammation; asthma;
KW Guillain-Barre syndrome; autoimmune thyroiditis; myasthenia gravis;
KW insulin dependent diabetes mellitus; graft-versus-host-disease;
KW autoimmune inflammatory eye disease; allergy; ss.
XX
OS Homo sapiens.
XX
XX WO200009552-A1.
XX
XX PD 24-FEB-2000.
XX
XX PF 13-AUG-1999; 99WO-US018298.
XX
XX PR 14-AUG-1998; 98US-0096622P.
XX PR 17-AUG-1998; 98US-0096815P.
XX PR 04-SEP-1998; 98US-0099229P.
XX PR 23-OCT-1998; 98US-0105368P.
XX PR 08-JAN-1999; 99US-0115234P.
XX PR 12-FEB-1999; 99US-0119931P.
XX PR 18-FEB-1999; 99US-0120575P.
XX PR 30-APR-1999; 99US-0132020P.
XX PR 11-AUG-1999; 99US-0148424P.
XX
XX (GEMY) GENETICS INST INC.
XX
XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;
PI Merberg D, Treacy M, Acostino MJ, Steininger RJ, Spaulding V;
PI Wong GG, Clark HF, Fechtel K;
XX
XX WPI; 2000-205979/18.
XX P-PSDB; AAY94901.
XX
XX New polynucleotides encoding secreted proteins, which may have e.g.
PT nutritional, chemokine, immune stimulating or suppressing, hematopoiesis
PT regulating, tissue growth, activin/inhibin antiinflammatory or tumor
PT inhibition activity.
XX
XX Claim 16; Page 470-471; 641pp; English.
XX
XX AAA16618 to AAA16697 encode the human secreted proteins given in AAY94898
CC to AAY94980, isolated from human adult brain, adult thyroid, adult
CC retina, foetal carcinoma, adult blood, adult neural, foetal kidney, adult
CC placenta, adult testis, whole embryo, adult cartilage, kidney, foetal
CC brain, adult thymus, foetal placenta, adult uterus, adult tumour, and
CC adult bladder. cDNA libraries. The polynucleotides and proteins are
CC predicted to have biological activities which would make them suitable
CC for treating, preventing or ameliorating medical conditions in humans and
CC animals. The polynucleotides can be used as markers for tissues in which
CC the protein is preferentially expressed, as molecular weight markers on
CC Southern gels, and as chromosome markers or tags to identify chromosomes
CC or to map gene positions. The proteins can be used in the treatment of
CC immune deficiencies and disorders, such as severe combined
CC immunodeficiency (SCID), as well as viral, bacterial, fungal and other
CC infections. These infections include human immunodeficiency virus (HIV),
CC hepatitis, herpesviruses, mycobacteria, Leishmania spp., malaria and
CC candidiasis. The proteins can be used to treat autoimmune disorders such

as connective tissue disease, multiple sclerosis, systemic lupus
CC erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation,
CC Guillain-Barre syndrome, autoimmune thyroiditis, insulin dependent
CC diabetes mellitus, myasthenia gravis, graft-versus-host-disease and
CC autoimmune inflammatory eye disease. The proteins can also be used to
CC treat allergic conditions, such as asthma. AAA16698 to AAA16774 represent
CC probes for the human secreted proteins from the present invention
XX
SQ Sequence 1462 BP; 384 A; 316 C; 431 G; 331 T; 0 U; 0 Other;

Query Match 92.0%; Score 273.2; DB 3; Length 1462;
Best Local Similarity 99.3%; Pred. No. 2.9e-77;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGCTTCTGCATAGGCGCTTTCAGTGTTCGCAATGCTGACTGACCTGGCATATCT 60
DB 475 CCGCTTCTGCATAGGCGCTTTCAGTGTTCGCAATGCTGACTGACCTGGCATATCT 416
QY 61 CAGTGAGCCCTTGGCGCTCAGCGCTGAACACTATAGTCCAGGATCCGCTCACATAATCTC 120
DB 415 CAGTGAGCCCTTGGCGCTCAGCGCTGAACACTATAGTCCAGGATCCGCTCACATAATCTC 356
QY 121 TAAGGCTTTCAGGCTTTCAGTGTTCGCAATGCTGACTGACCTGGCATATCT 180
DB 355 TAAGGCTTTCAGGCTTTCAGTGTTCGCAATGCTGACTGACCTGGCATATCT 296
QY 181 TGTATCCAGCAGCTGCCCGCTCCAGCGCTTCGAGATCGACCGTGGCATATCT 240
DB 295 TGTATCCAGCAGCTGCCCGCTCCAGCGCTTCGAGATCGACCGTGGCATATCT 236
QY 241 CGCTGTAGCTGTGCTCAGCAGCTTACACACT 274
DB 235 CGCTGTAGCTGTGCTCAGCAGCTTACACACT 202

RESULT 15
AAC58116/c
ID AAC58116 standard; cDNA; 1470 BP.
XX
AC AAC58116;
XX
DT 25-JAN-2001 (first entry)
XX
DE Human PRO4354 nucleotide sequence SEQ ID NO:39.
XX
XX Human; tumour; diagnosis; neoplastic disease; proliferation; cancer;
KW identification; tumourigenesis; anticancer; detection; ss.
XX
XX Homo sapiens.
XX
XX WO2000053750-A1.
XX
XX PD 14-SEP-2000.
XX
XX PF 02-DEC-1999; 99WO-US028551.
XX
XX PR 08-MAR-1999; 99WO-US005028.
XX PR 01-SEP-1999; 99WO-US020111.
XX PR 29-OCT-1999; 99US-0162506P.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 01-DEC-1999; 99WO-US028634.
XX
XX (GETH) GENENTECH INC.
XX
XX Botstein D, Goddard A, Gurney AL, Roy MA, Watanabe CK, Wood WI;
PI WPI; 2000-594320/56.
XX P-PSDB; AAB24034.
XX
XX Antibodies specific for PRO polypeptides, used to diagnose and inhibit
PT the growth of tumors in mammals, and to identify inhibitors of PRO
PT polypeptide activity or expression.
XX

PS Claim 50; Fig 27; 226pp; English.

XX The present invention describes an antibody that binds to a human protein
CC (I) selected from: PRO1381; PRO1269; PRO1410; PRO1755; PRO1780; PRO3434;
CC PRO1927; PRO3567; PRO1295; PRO1303; PRO4344; PRO4354; PRO4397;
CC PRO4407; PRO1555; PRO1096; PRO2038; and PRO2262. (I) has anticancer
CC activity and can be used to diagnose tumours in mammals, by detecting
CC complex formation when the antibody is contacted with test cells.
CC Increased expression of genes encoding (I) can also be detected to
CC diagnose tumours. Agents which inhibit the activity of (I), especially
CC the antibodies, or an antisense oligonucleotide which hybridises to genes
CC encoding (I), can be used to inhibit tumour growth, preferably by
CC inducing cell death. Methods from the present invention can be used to
CC identify compounds which inhibit the biological activity of (I). AAC58019
CC to AAC58102 represent PCR primers and hybridisation probes used in
CC examples from the present invention for human PRO sequences. AAC58103 to
CC AAC58122 and AAB24021 to AAB24040 represent human PRO polynucleotide and
CC protein sequences given in the exemplification of the present invention
XX

SO Sequence 1470 BP; 373 A; 322 C; 438 G; 337 T; 0 U; 0 Other;

RY Match 92.0%; Score 273.2; DB 3; Length 1470;
Best Local Similarity 99.3%; Pred. No. 2.9e-77;
Matches 272; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCCTTCTGCATAGGCCTTTCAGTGTGCGCATGTGCTGACTCTGACCCCTTGGCATATCT 60
Db 497 CCCCTTCTGCATAGGCCTTTCAGTGTGCGCATGTGCTGACTCTGACCCCTTGGCATATCT 438
QY 61 CAGTGAGCCCTTGGCTCAGCGTGACACTATATAGTCAGGATCCGCTCACAATAATCTC 120
Db 437 CAGTGAGCCCTTGGCTCAGCGTGACACTATATAGTCAGGATCCGCTCACAATAATCTC 378
QY 121 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTGTAAGGCACTGCTCTTCTCTTGCC 180
Db 377 TAAGGCTCTTCCAGCCTTGTCTCTGAAACGCTGTAAGGCACTGCTCTTCTCTTGCC 318
QY 181 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTTCGAGATCGACCCGCTGCACTCAGTTC 240
Db 317 TGTATCCAGCACCTGCCCCAGCTCCAGRCCTCTTCGAGATCGACCCGCTGCACTCAGTTC 258
QY 241 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACT 274
Db 257 CGCCTGTAGCTCTGTGCTCAGCAGCTTACACT 224

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